

# **DOCUMENTATION OF THE DETAIL NATALITY TAPE FILE FOR 2001 DATA**

**Populations included in this documentation are estimated based on the 2000 census; state-specific populations based on the 2000 census are not yet available; see Technical Appendix.**

## **Public Use Data Tape Documentation - Natality Detail 2001 Data**

**This tape documentation was prepared in the Division of Vital Statistics. Manju Sharma and Vanetta Harrington of the Systems, Programming, and Statistical Resources Branch were responsible for developing the natality documentation.**

**Paul Sutton of the Reproductive Statistics Branch prepared the Technical Appendix. The Registration Methods Section and the Data Acquisition and Evaluation Branch provided consultation to State Vital Statistics offices regarding collection of birth certificate data.**

**Questions on the documentation or general questions concerning the natality file should be directed to the Systems, Programming, and Statistical Resources Branch, Division of Vital Statistics, NCHS, 3311 Toledo Road, Room 7318, Hyattsville, MD 20782-2003 (301-458-4195).**

**Questions concerning the Technical Appendix or substantive questions concerning the natality data should be directed to the Reproductive Statistics Branch, Division of Vital Statistics, NCHS, 3311 Toledo Road, Room 7318, Hyattsville, MD 20782-2003 (301-458-4111).**

## **Documentation of the Detail Natality Data File for 2001 Data**

**Since 1985 natality statistics for all States and the District of Columbia have been based on information from the total file of records. The information is received on computer data tapes coded by the States and provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program. NCHS receives the data for this file from the registration offices of all States, the District of Columbia, and New York City. Natality data for Puerto Rico, Virgin Islands, Guam, American Samoa and the Commonwealth of the Northern Mariana Islands (referred to as Northern Marianas) are included as a separate data-set in the public-use file.**

**Natality data for the United States are limited to births occurring within the United States to U.S. residents and nonresidents. Births to nonresidents of the United States are excluded from all tabulations by place of residence. Births occurring to U.S. citizens outside the United States are not included in this file. Natality data for Puerto Rico, Virgin Islands, Guam, American Samoa and Northern Marianas are limited to births occurring within the respective territories.**

**Effective January 1, 1989, a revised U.S. Standard Certificate of Live Birth replaced the 1978 revision. The 1989 revision provides a wide variety of new information on maternal and infant health characteristics, representing a significant departure from previous versions in both content and format. For a more detailed discussion of the revised and new items, refer to the technical appendix part of this document.**

**The Office of Management and Budget revised its designation of metropolitan statistical areas based on figures from the 1990 Census. Effective with the 1990 data file, NCHS has been using these new definitions and codes as indicated in the listing of 320 Metropolitan Statistical Areas (MSA's), Primary Metropolitan Statistical Areas (PMSA's), and New England County Metropolitan Areas (NECMA'S) included in this documentation. There are also 20 Consolidated Metropolitan Statistical Areas (CMSA's), which are made up of PMSA's. Because other geographic changes based on 1990 Census became effective with 1994 data file, the metropolitan statistical area destinations were updated as well. Effective with the 1994 data-file there are 311 MSA's, PMSA's, and NECMA'S and 18 CMSA's as indicated in the listing included in this documentation.**

**NCHS has adopted a new policy on release of vital statistics unit record data files. This new policy was implemented for the 1989 vital event files to prevent the inadvertent disclosure of individuals and institutions. As a result, the files for 1989 and later years do not contain the actual day of the birth or the dates of birth of the mother or father. The geographic detail is also restricted; only counties and cities of 100,000 or more population based on the 1990 Census, as well as metropolitan areas of 100,000 or more population based on the 1990 Census, are identified.**

**Included in this document are:**

- 1. List of data elements and tape locations.**
- 2. Machine/File/Data Characteristics.**
- 3. Detail Record Layout.**
- 4. Geographic Code Outline.**
- 5. Metropolitan Statistical Areas as adapted for use by NCHS/DVS.**
- 6. Technical Appendix.**

#### **SYMBOLS USED IN TABLES**

| <b>Symbol</b> | <b>Explanation</b>  |
|---------------|---|
| <b>---</b>    | <b>Data not available</b>   |
| <b>...</b>    | <b>Category not applicable</b>                                    |
| <b>-</b>      | <b>Quantity zero</b>  |
| <b>0.0</b>    | <b>Quantity more than 0 but less than 0.05</b>                    |
| <b>*</b>      | <b>Figure does not meet standards of reliability or precision</b> |

# List of Data Elements and Tape Locations

| <u>Data Items</u>           | <u>Locations</u> |
|-----------------------------|------------------|
| 1. General                  |                  |
| a. Data year                | 1-4              |
| b. Record type              | 5                |
| c. Resident status          | 6                |
| 2. Occurrence               |                  |
| a. NCHS State               | 16-17            |
| b. Expanded NCHS State      | 14-15            |
| c. NCHS County              | 18-20            |
| d. Population size - county | 26               |
| e. Division                 | 12               |
| f. Region                   | 11               |
| g. FIPS State               | 21-22            |
| h. FIPS County              | 23-25            |
| 3. Residence                |                  |
| a. NCHS State               | 32-33            |
| b. Expanded NCHS State      | 30-31            |
| c. NCHS County              | 34-36            |
| d. NCHS City                | 37-39            |
| e. Population size - city   | 40               |
| f. Population size - county | 58               |
| g. NCHS PSMA/MSA            | 347-349          |
| h. Met/Nonmet county        | 41               |
| i. Division                 | 28               |
| j. Region                   | 27               |
| k. FIPS State               | 42-43            |
| l. FIPS County              | 44-46            |
| m. FIPS Place               | 47-51            |
| n. CMSA                     | 52-53            |
| o. FIPS PSMA/MSA            | 54-57            |
| 4. Prenatal Care            |                  |
| a. Month began              | 106-109          |
| b. Number of visits         | 110-113          |
| c. Adequacy of care recode  | 93               |
| 5. Child                    |                  |
| a. Sex                      | 188-189          |
| b. Number at delivery       | 201              |
| c. Birthweight              | 193-199          |
| d. Apgar score              | 205-207          |
| e. Gestation                | 181-187,208-209  |
| f. Month/year of birth      | 172-173,176-179  |
| g. Day of week of birth     | 180              |

# List of Data Elements and Tape Locations

| <u>Data Items</u>                         | <u>Locations</u> |
|---|------------------|
| 6. Mother                                 |                  |
| a. Age                                    | 68-76,91-92      |
| b. Race                                   | 79-82            |
| c. Marital status                         | 86-87            |
| d. Education                              | 83-85            |
| e. Place of birth                         | 88-90            |
| f. Hispanic origin                        | 77-78            |
| 7. Pregnancy History                      |                  |
| a. Born alive, now living                 | 94-95            |
| b. Born alive, now dead                   | 96-97            |
| c. Other terminations                     | 98-99            |
| d. Total birth order                      | 103-105          |
| e. Live birth order                       | 100-102          |
| 8. Father                                 |                  |
| a. Age                                    | 154-157,166-167  |
| b. Race                                   | 160-162          |
| c. Hispanic origin                        | 158-159          |
| 9. Other Items                            |                  |
| a. Residence reporting flags              | 307-326          |
| b. Attendant at birth                     | 10               |
| c. Place of delivery                      | 8-9              |
| d. Interval since last live birth         | 128-132          |
| 10. Medical and Health Data               |                  |
| a. Method of delivery                     | 217-222,224      |
| b. Medical risk factors                   | 225-241          |
| c. Other risk factors                     |                  |
| Tobacco                                   | 242-245          |
| Alcohol                                   | 246-249          |
| Weight gain during pregnancy              | 250-252          |
| d. Obstetric procedures                   | 253-259          |
| e. Complications of labor and/or delivery | 260-275          |
| f. Abnormal conditions of the newborn     | 276-284          |
| g. Congenital anomalies                   | 285-306          |

Machine/File/Data Characteristics:

ALL DATA SETS:

|    |                    |                           |
|----|--------------------|---------------------------|
| 1. | Machine used:      | IBM/3081/K                |
| 2. | Language used:     | PL/I                      |
| 3. | File organization: | One file, multiple reels  |
| 4. | Record format:     | Blocked, fixed format     |
| 5. | Record mode:       | IBM/EBCDIC 8-bit code     |
| 6. | Code scheme:       | Numeric/Alphabetic/Blanks |
| 7. | Last block:        | May be a short block      |
| 8. | Record length:     | 350                       |
| 9. | Blocksize:         | 32550                     |

U.S. DATA SET:

|    |               |                             |
|----|---------------|-----------------------------|
| 1. | Record count: |                             |
| 2. | Data counts:  | ALL BIRTHS:                 |
|    | a.            | By occurrence: 4,031,531    |
|    | b.            | By residence: 4,025,933     |
|    | c.            | To foreign residents: 5,598 |

PUERTO RICO, VIRGIN ISLANDS, GUAM, AMERICAN SAMOA, AND NORTHERN MARIANAS DATA SET

|    |               |        |
|----|---------------|--------|
| 1. | Record count: | 64,440 |
|----|---------------|--------|

PUERTO RICO:

|    |              |                       |
|----|--------------|-----------------------|
| 2. | Data counts: | ALL BIRTHS:           |
|    | a.           | By occurrence: 55,983 |

VIRGIN ISLANDS:

|    |               |                      |
|----|---------------|----------------------|
| 1. | Record count: |                      |
| 2. | Data counts:  | ALL BIRTHS:          |
|    | a.            | By occurrence: 1,770 |
|    | b.            | By residence: 1,669  |

GUAM:

|    |               |                      |
|----|---------------|----------------------|
| 1. | Record count: |                      |
| 2. | Data counts:  | ALL BIRTHS:          |
|    | a.            | By occurrence: 3,584 |
|    | b.            | By residence: 3,564  |

AMERICAN SAMOA:

|    |               |                      |
|----|---------------|----------------------|
| 1. | Record count: |                      |
| 2. | Data counts:  | ALL BIRTHS:          |
|    | a.            | By occurrence: 1,655 |

|    |               |                      |
|----|---------------|----------------------|
| 1. | Record count: |                      |
| 2. | Data counts:  | ALL BIRTHS:          |
|    | a.            | By occurrence: 1,448 |
|    | b.            | By residence: 1,449  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
| 1-4                      | 4                     | <u>DATAYEAR</u><br><u>Year Birth of Child (Data Year)</u><br><br>2001                    ...                    2001  |
| 5                        | 1                     | <u>RECTYPE</u><br><u>Record Type</u><br><br>1                    ...                    Resident: State and county of occurrence and residence are the same.<br>2                    ...                    Nonresident: State and/or county of occurrence and residence are different.   |
| 6                        | 1                     | <u>RESTATUS</u><br><u>Resident Status</u><br><br><u>United States occurrence</u><br>1                    ...                    RESIDENTS: State and county of occurrence and residence are the same.<br>2                    ...                    INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different.<br>3                    ...                    INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the U.S.<br>4                    ...                    FOREIGN RESIDENTS: State of occurrence is one of the 50 States or the District of Columbia, but place of residence of mother is outside of the U.S.<br><br><u>Puerto Rico occurrence</u><br>1                    ...                    RESIDENTS: Territory and county equivalent of occurrence and residence are the same.<br>2                    ...                    INTRATERRITORY NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.<br>3                    ...                    INTERTERRITORY NONRESIDENTS: Territory of occurrence and residence are different, but both are a Territory.<br>4                    ...                    FOREIGN RESIDENTS: Occurred in Puerto Rico to a resident of any other place. |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------------|-----------------------------|---|
| 6                              | 1                           | <p><u>RESTATUS</u><br/><u>Resident Status (Cont'd)</u></p> <p><u>Virgin Islands occurrence</u></p> <p>1                   ... RESIDENTS: Territory and county equivalent of occurrence and residence are the same.</p> <p>2                   ... INTRATERRITORY<br/>NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.</p> <p>3                   ... INTERTERRITORY<br/>NONRESIDENTS: Territory of occurrence and residence are different, but both are a Territory.</p> <p>4                   ... FOREIGN RESIDENTS:<br/>Occurred in the Virgin Islands to a resident of any other place.</p> <p><u>Guam occurrence</u></p> <p>1                   ... RESIDENTS: Occurred in Guam to a resident of Guam or to a resident of the U.S.</p> <p>3                   ... INTERTERRITORY<br/>NONRESIDENTS: Territory of occurrence and residence are different, but both are a Territory.</p> <p>4                   ... FOREIGN RESIDENTS:<br/>Occurred in Guam to a resident of any place other than Guam or of the U.S.</p> <p><u>American Samoa occurrence</u></p> <p>1                   ... RESIDENTS: Territory and county equivalent of occurrence and residence are the same.</p> <p>2                   ... INTRATERRITORY<br/>NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.</p> <p>3                   ... INTERTERRITORY NON<br/>RESIDENTS: Territory of occurrence and residence are different, but both are a Territory.</p> <p>4                   ... FOREIGN RESIDENTS:<br/>Occurred in the American Samoa to a resident of any other place.</p> |

2001  
Detail Natality Record

| <u>Tape</u>     | <u>Field</u> | <u>Item and Code Outline</u>   |
|-----------------|--------------|--|
| <u>Location</u> | <u>Size</u>  |  |
| 6               | 1            | <u>RESTATUS</u><br><u>Resident Status (Cont'd)</u><br><br><u>Northern Marianas occurrence</u><br><br>1           ...     RESIDENTS: Territory and county<br>equivalent of occurrence and<br>residence are the same.<br>2           ...     INTRATERRITORY NONRESIDENTS:<br>Territory of occurrence and<br>residence are the same, but county<br>equivalent is different.<br>3           ...     INTERTERRITORY<br>NONRESIDENTS:          Territory of<br>occurrence and          residence are<br>different, but both      are a<br>Territory.<br>4           ...     FOREIGN RESIDENTS: Occurred in the<br>Northern Marianas to a resident of<br>any other place. |
| 7               | 1            | <u>RECWT</u><br><u>Record Weight</u><br><br><div style="text-align: right;">1</div> ...     Constant - as of the<br>1985 data year, this file contains<br>data on a 100-percent basis from all<br>reporting areas.   |
| 8               | 1            | <u>PLDEL</u><br><u>Place or Facility of Birth</u><br><br>1           ...     Hospital<br>2           ...     Freestanding Birthing Center<br>3           ...     Clinic or Doctor's Office<br>4           ...     A Residence<br>5           ...     Other<br>9           ...     Unknown or Not Stated  |
| 9               | 1            | <u>PLDEL3</u><br><u>Place or Facility of Birth Recode</u><br><br>1           ...     In Hospital<br>2           ...     Not in a Hospital<br>3           ...     Unknown or Not Stated   |
| 10              | 1            | <u>BIRATTND</u><br><u>Attendant at Birth</u><br><br>1           ...     Doctor of Medicine (M.D.)<br>2           ...     Doctor of Osteopathy (D.O.)<br>3           ...     Certified Nurse Midwife (C.N.M.)<br>4           ...     Other Midwife  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
|                          |                       | 5           ...   Other   |
|                          |                       | 9           ...   Unknown or Not Stated   |
| 11-26                    | 16                    | <u>NOCCUR</u><br><u>Place of Occurrence</u>   |
| 11-13                    | 3                     | <u>RDSSCOCC</u><br><u>Region, Division, and State Subcode of</u><br><u>Occurrence</u> |
| 11                       | 1                     | <u>REGNOCC</u><br><u>Region of Occurrence</u>   |
| 12                       | 1                     | <u>DIVOCC</u><br><u>Division of Occurrence</u>  |
| 13                       | 1                     | <u>STSUBOCC</u><br><u>State Subcode of Occurrence</u>                                 |

States are coded within division and the structure is designed to sequence the States as they appear in NCHS publications.

|     |     |  |
|-----|-----|--|
| 000 | ... | Not applicable: P.R., V.I.,<br>A.S., Guam or M.P. occurrence |
| 1   | ... | <u>NORTHEAST</u>   |
| 1   | ... | New England  |
| 1   | ... | Maine  |
| 2   | ... | New Hampshire  |
| 3   | ... | Vermont  |
| 4   | ... | Massachusetts  |
| 5   | ... | Rhode Island   |
| 6   | ... | Connecticut  |
| 2   | ... | <u>Middle Atlantic</u>                                       |
| 1   | ... | New York   |
| 2   | ... | New Jersey   |
| 3   | ... | Pennsylvania   |
| 2   | ... | <u>MIDWEST</u>   |
| 3   | ... | <u>East North Central</u>                                    |
| 1   | ... | Ohio   |
| 2   | ... | Indiana  |
| 3   | ... | Illinois   |
| 4   | ... | Michigan   |
| 5   | ... | Wisconsin  |
| 4   | ... | <u>West North Central</u>                                    |
| 1   | ... | Minnesota  |
| 2   | ... | Iowa   |
| 3   | ... | Missouri   |
| 4   | ... | North Dakota   |
| 5   | ... | South Dakota   |
| 6   | ... | Nebraska   |
| 7   | ... | Kansas   |
| 3   | ... | <u>SOUTH</u>   |

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

5      ...      South Atlantic  
1      ...      Delaware  
2      ...      Maryland

13

1      STSUBOCC  
State Subcode of Occurrence (Cont'd)  
3      ...      District of Columbia  
4      ...      Virginia  
5      ...      West Virginia  
6      ...      North Carolina  
7      ...      South Carolina  
8      ...      Georgia  
9      ...      Florida  
6      ...      East South Central  
1      ...      Kentucky  
2      ...      Tennessee  
3      ...      Alabama  
4      ...      Mississippi  
7      ...      West South Central  
1      ...      Arkansas  
2      ...      Louisiana  
3      ...      Oklahoma  
4      ...      Texas  
4      ...      WEST  
8      ...      Mountain  
1      ...      Montana  
2      ...      Idaho  
3      ...      Wyoming  
4      ...      Colorado  
5      ...      New Mexico  
6      ...      Arizona  
7      ...      Utah  
8      ...      Nevada  
9      ...      Pacific  
1      ...      Washington  
2      ...      Oregon  
3      ...      California  
4      ...      Alaska  
5      ...      Hawaii

14-15

2

STNATEXP  
Expanded State of Occurrence

This item is designed to separately identify  
New York city records from other New York  
State records.

United States

01      ...      Alabama  
02      ...      Alaska  
03      ...      Arizona  
04      ...      Arkansas  
05      ...      California  
06      ...      Colorado  
07      ...      Connecticut

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>                 |
|--------------------------------|-----------------------------|--|
| 14-15                          | 2                           | 08 ... Delaware                              |
|                                |                             | 09 ... District of Columbia                  |
|                                |                             | 10 ... Florida                               |
|                                |                             | 11 ... Georgia                               |
|                                |                             | 12 ... Hawaii                                |
|                                |                             | 13 ... Idaho                                 |
|                                |                             | 14 ... Illinois                              |
|                                |                             | <u>STNATEXP</u>                              |
|                                |                             | <u>Expanded State of Occurrence (Cont'd)</u> |
|                                |                             | 15 ... Indiana                               |
|                                |                             | 16 ... Iowa                                  |
|                                |                             | 17 ... Kansas                                |
|                                |                             | 18 ... Kentucky                              |
|                                |                             | 19 ... Louisiana                             |
|                                |                             | 20 ... Maine                                 |
|                                |                             | 21 ... Maryland                              |
|                                |                             | 22 ... Massachusetts                         |
|                                |                             | 23 ... Michigan                              |
|                                |                             | 24 ... Minnesota                             |
|                                |                             | 25 ... Mississippi                           |
|                                |                             | 26 ... Missouri                              |
|                                |                             | 27 ... Montana                               |
|                                |                             | 28 ... Nebraska                              |
|                                |                             | 29 ... Nevada                                |
|                                |                             | 30 ... New Hampshire                         |
|                                |                             | 31 ... New Jersey                            |
|                                |                             | 32 ... New Mexico                            |
|                                |                             | 33 ... New York                              |
|                                |                             | 34 ... New York city                         |
|                                |                             | 35 ... North Carolina                        |
|                                |                             | 36 ... North Dakota                          |
|                                |                             | 37 ... Ohio                                  |
|                                |                             | 38 ... Oklahoma                              |
|                                |                             | 39 ... Oregon                                |
|                                |                             | 40 ... Pennsylvania                          |
|                                |                             | 41 ... Rhode Island                          |
|                                |                             | 42 ... South Carolina                        |
|                                |                             | 43 ... South Dakota                          |
|                                |                             | 44 ... Tennessee                             |
|                                |                             | 45 ... Texas                                 |
|                                |                             | 46 ... Utah                                  |
|                                |                             | 47 ... Vermont                               |
|                                |                             | 48 ... Virginia                              |
|                                |                             | 49 ... Washington                            |
|                                |                             | 50 ... West Virginia                         |
|                                |                             | 51 ... Wisconsin                             |
|                                |                             | 52 ... Wyoming                               |
|                                |                             | <u>Puerto Rico</u>                           |
|                                |                             | 53 ... Puerto Rico                           |
|                                |                             | <u>Virgin Islands</u>                        |
|                                |                             | 54 ... Virgin Islands                        |
|                                |                             | <u>Guam</u>                                  |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>            |
|--------------------------------|-----------------------------|---|
|                                |                             | 55           ...   Guam                 |
|                                |                             | <u>American Samoa</u>                   |
|                                |                             | 62           ...   American Samoa       |
|                                |                             | <u>Northern Marianas</u>                |
|                                |                             | 63           ...   Northern Marianas    |
| 16-17                          | 2                           | <u>STATENAT</u>                         |
|                                |                             | <u>State of Occurrence</u>              |
|                                |                             | <u>United States</u>                    |
|                                |                             | 01           ...   Alabama              |
|                                |                             | 02           ...   Alaska               |
|                                |                             | 03           ...   Arizona              |
|                                |                             | 04           ...   Arkansas             |
|                                |                             | 05           ...   California           |
|                                |                             | 06           ...   Colorado             |
|                                |                             | 07           ...   Connecticut          |
|                                |                             | 08           ...   Delaware             |
|                                |                             | 09           ...   District of Columbia |
|                                |                             | 10           ...   Florida              |
|                                |                             | 11           ...   Georgia              |
|                                |                             | 12           ...   Hawaii               |
|                                |                             | 13           ...   Idaho                |
|                                |                             | 14           ...   Illinois             |
|                                |                             | 15           ...   Indiana              |
|                                |                             | 16           ...   Iowa                 |
|                                |                             | 17           ...   Kansas               |
|                                |                             | 18           ...   Kentucky             |
|                                |                             | 19           ...   Louisiana            |
|                                |                             | 20           ...   Maine                |
|                                |                             | 21           ...   Maryland             |
|                                |                             | 22           ...   Massachusetts        |
|                                |                             | 23           ...   Michigan             |
|                                |                             | 24           ...   Minnesota            |
|                                |                             | 25           ...   Mississippi          |
|                                |                             | 26           ...   Missouri             |
|                                |                             | 27           ...   Montana              |
|                                |                             | 28           ...   Nebraska             |
|                                |                             | 29           ...   Nevada               |
|                                |                             | 30           ...   New Hampshire        |
|                                |                             | 31           ...   New Jersey           |
|                                |                             | 32           ...   New Mexico           |
|                                |                             | 33           ...   New York             |
|                                |                             | 34           ...   North Carolina       |
|                                |                             | 35           ...   North Dakota         |
|                                |                             | 36           ...   Ohio                 |
|                                |                             | 37           ...   Oklahoma             |
|                                |                             | 38           ...   Oregon               |
|                                |                             | 39           ...   Pennsylvania         |
|                                |                             | 40           ...   Rhode Island         |
|                                |                             | 41           ...   South Carolina       |
|                                |                             | 42           ...   South Dakota         |
|                                |                             | 43           ...   Tennessee            |

Tape  
Location

### Item and Code Outline

16-17

2

## STATENAT

Puerto Rico

52 ... Puerto Rico

Virgin Islands

53 ... Virgin Islands

## Guam

54 . . . Guam

American Samoa

61 ... American Samoa

Northern Marianas

---

|    |     |                   |
|----|-----|-------------------|
| 62 | ... | Northern Marianas |
|----|-----|-------------------|

18-20

3

## CNTYNAT

## County of Occurrence

```
001-nnn    ...    Counties and county equivalents
                  (independent and coextensive cities)
                  are numbered alphabetically within
                  each State and identify each county
                  with a population of 100,000 or more
                  in 1990. (Note: To uniquely
                  identify a county, both and State
                  and county codes must be used.) A
                  complete list of counties is shown
                  in the Geographic Code Outline
                  further back in this document.
999        ...    County of less than 100,000
                  population
```

21-25

5

**FIPSOCC**

Federal Information Processing Standards (FIPS)  
Geographic Codes (Occurrence)

Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

Some Geographic codes have changed to reflect the  
results of the 1990 Census.

## 2001

## Detail Natality Record

**Tape Location**

## Field Size

### Item and Code Outline

21-22

2

STOCCFIP

State of Occurrence (FIPS)

United States

|    |     |                      |
|----|-----|----------------------|
| 01 | ... | Alabama              |
| 02 | ... | Alaska               |
| 04 | ... | Arizona              |
| 05 | ... | Arkansas             |
| 06 | ... | California           |
| 08 | ... | Colorado             |
| 09 | ... | Connecticut          |
| 10 | ... | Delaware             |
| 11 | ... | District of Columbia |
| 12 | ... | Florida              |
| 13 | ... | Georgia              |
| 15 | ... | Hawaii               |
| 16 | ... | Idaho                |
| 17 | ... | Illinois             |
| 18 | ... | Indiana              |
| 19 | ... | Iowa                 |
| 20 | ... | Kansas               |
| 21 | ... | Kentucky             |
| 22 | ... | Louisiana            |
| 23 | ... | Maine                |
| 24 | ... | Maryland             |
| 25 | ... | Massachusetts        |
| 26 | ... | Michigan             |
| 27 | ... | Minnesota            |
| 28 | ... | Mississippi          |
| 29 | ... | Missouri             |
| 30 | ... | Montana              |
| 31 | ... | Nebraska             |
| 32 | ... | Nevada               |
| 33 | ... | New Hampshire        |
| 34 | ... | New Jersey           |
| 35 | ... | New Mexico           |
| 36 | ... | New York             |
| 37 | ... | North Carolina       |
| 38 | ... | North Dakota         |
| 39 | ... | Ohio                 |
|    |     | ...                  |
| 41 |     | ... Oklahoma         |
|    |     | ...                  |
| 42 |     | ... Oregon           |
|    |     | ...                  |
| 44 | ... | Pennsylvania         |
| 45 | ... | Rhode Island         |
| 46 | ... | South Carolina       |
| 47 | ... | South Dakota         |
| 48 | ... | Tennessee            |
|    | ... | Texas                |

40

Tape  
Location

Field  
Size

## 21-22

2

## STOCCFIP

## 53

# Puerto Rico

## Virgin Islands

Guam

American Samoa

## Northern Marianas

23-25

3

CNTOCFIP

## 001-nnn

26

1

CNTOCPOP

Based on the results of the 1990 Census

|   |     |                                |
|---|-----|--------------------------------|
| 0 | ... | County of 1,000,000 or more    |
| 1 | ... | County of 500,000 to 1,000,000 |

2001  
Detail Natality Record

| <u>Tape Location</u>           | <u>Field Size</u> | <u>Item and Code Outline</u>  |
|--------------------------------|-------------------|---|
|                                |                   | 2           ...   County of   250,000 to   500,000  |
|                                |                   | 3           ...   County of   100,000 to   250,000  |
| 27-58                          | 32                | <u>NRESID</u><br><u>Place of Residence</u><br><br>Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. <b>Some Geographic codes have changed to reflect the results of the 1990 Census.</b> |
| 27-29                          | 3                 | <u>RDSCRES</u><br><u>Region, Division, and State Subcode of Residence</u>   |
| 27                             | 1                 | <u>REGNRES</u><br><u>Region of Residence</u>  |
| 28                             | 1                 | <u>DIVRES</u><br><u>Division of Residence</u>   |
| 29                             | 1                 | <u>STSUBRES</u><br><u>State Subcode of Residence</u><br><br>States are coded within Division and the code structure is designed to sequence the States as they appear in NCHS publications.   |
| <u>APPLICABLE TO U.S. ONLY</u> |                   |   |
|                                |                   | 000           ... <u>Foreign Residents</u>  |
|                                |                   | 1           ... <u>NORTHEAST</u>  |
|                                |                   | 1       ... <u>New England</u>  |
|                                |                   | 1     ...   Maine   |
|                                |                   | 2     ...   New Hampshire   |
|                                |                   | 3     ...   Vermont   |
|                                |                   | 4     ...   Massachusetts   |
|                                |                   | 5     ...   Rhode Island  |
|                                |                   | 6     ...   Connecticut   |
|                                |                   | 2       ... <u>Middle Atlantic</u>  |
|                                |                   | 1     ...   New York  |
|                                |                   | 2     ...   New Jersey  |
|                                |                   | 3     ...   Pennsylvania  |
|                                |                   | 2       ... <u>MIDWEST</u>  |
|                                |                   | 3       ... <u>East North Central</u>   |
|                                |                   | 1     ...   Ohio  |
|                                |                   | 2     ...   Indiana   |
|                                |                   | 3     ...   Illinois  |
|                                |                   | 4     ...   Michigan  |
|                                |                   | 5     ...   Wisconsin   |
|                                |                   | 4       ...   ... <u>West North Central</u>   |
|                                |                   | 1     ...   Minnesota   |
|                                |                   | 2     ...   Iowa  |
|                                |                   | 3     ...   Missouri  |
|                                |                   | 4     ...   North Dakota  |

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

29

1

|   |     |                       |
|---|-----|-----------------------|
| 5 | ... | South Dakota          |
| 6 | ... | Nebraska              |
| 7 | ... | Kansas                |
| 3 | ... | <u>SOUTH</u>          |
| 5 | ... | <u>South Atlantic</u> |
| 1 | ... | Delaware              |
| 2 | ... | Maryland              |

STSUBRES

State Subcode of Residence (Cont'd)

|   |     |                           |
|---|-----|---------------------------|
| 3 | ... | District of Columbia      |
| 4 | ... | Virginia                  |
| 5 | ... | West Virginia             |
| 6 | ... | North Carolina            |
| 7 | ... | South Carolina            |
| 8 | ... | Georgia                   |
| 9 | ... | Florida                   |
| 6 | ... | <u>East South Central</u> |
| 1 | ... | Kentucky                  |
| 2 | ... | Tennessee                 |
| 3 | ... | Alabama                   |
| 4 | ... | Mississippi               |
| 7 | ... | <u>West South Central</u> |
| 1 | ... | Arkansas                  |
| 2 | ... | Louisiana                 |
| 3 | ... | Oklahoma                  |
| 4 | ... | Texas                     |
| 4 | ... | <u>WEST</u>               |
| 8 | ... | <u>Mountain</u>           |
| 1 | ... | Montana                   |
| 2 | ... | Idaho                     |
| 3 | ... | Wyoming                   |
| 4 | ... | Colorado                  |
| 5 | ... | New Mexico                |
| 6 | ... | Arizona                   |
| 7 | ... | Utah                      |
| 8 | ... | Nevada                    |
| 9 | ... | <u>Pacific</u>            |
| 1 | ... | Washington                |
| 2 | ... | Oregon                    |
| 3 | ... | California                |
| 4 | ... | Alaska                    |
| 5 | ... | Hawaii                    |

30-31

2

STRESEXP

Expanded State of Residence

This item is designed to separately identify New York City records from other New York State records.

United States occurrence

|    |     |          |        |
|----|-----|----------|--------|
| 01 | ... | Alabama  |        |
| 02 | ... | Alaska   | Alaska |
| 03 | ... | Arizona  |        |
| 04 | ... | Arkansas |        |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>                       |
|--------------------------------|-----------------------------|--|
|                                |                             | 05      ...      California                        |
|                                |                             | 06      ...      Colorado                          |
|                                |                             | 07      ...      Connecticut                       |
|                                |                             | 08      ...      Delaware                          |
|                                |                             | 09      ...      District of Columbia              |
|                                |                             | 10      ...      Florida                           |
|                                |                             | 11      ...      Georgia                           |
|                                |                             | 12      ...      Hawaii                            |
|                                |                             | 13      ...      Idaho                             |
| 30-31                          | 2                           | <u>STREEXP</u>                                     |
|                                |                             | <u>Expanded State of Residence (Cont'd)</u>        |
|                                |                             | 14      ...      Illinois                          |
|                                |                             | 15      ...      Indiana                           |
|                                |                             | 16      ...      Iowa                              |
|                                |                             | 17      ...      Kansas                            |
|                                |                             | 18      ...      Kentucky                          |
|                                |                             | 19      ...      Louisiana                         |
|                                |                             | 20      ...      Maine                             |
|                                |                             | 21      ...      Maryland                          |
|                                |                             | 22      ...      Massachusetts                     |
|                                |                             | 23      ...      Michigan                          |
|                                |                             | 24      ...      Minnesota                         |
|                                |                             | 25      ...      Mississippi                       |
|                                |                             | 26      ...      Missouri                          |
|                                |                             | 27      ...      Montana                           |
|                                |                             | 28      ...      Nebraska                          |
|                                |                             | 29      ...      Nevada                            |
|                                |                             | 30      ...      New Hampshire                     |
|                                |                             | 31      ...      New Jersey                        |
|                                |                             | 32      ...      New Mexico                        |
|                                |                             | 33      ...      New York                          |
|                                |                             | 34      ...      New York City                     |
|                                |                             | 35      ...      North Carolina                    |
|                                |                             | 36      ...      North Dakota                      |
|                                |                             | 37      ...      Ohio                              |
|                                |                             | 38      ...      Oklahoma                          |
|                                |                             | 39      ...      Oregon                            |
|                                |                             | 40      ...      Pennsylvania                      |
|                                |                             | 41      ...      Rhode Island                      |
|                                |                             | 42      ...      South Carolina                    |
|                                |                             | 43      ...      South Dakota                      |
|                                |                             | 44      ...      Tennessee                         |
|                                |                             | 45      ...      Texas                             |
|                                |                             | 46      ...      Utah                              |
|                                |                             | 47      ...      Vermont                           |
|                                |                             | 48      ...      Virginia                          |
|                                |                             | 49      ...      Washington                        |
|                                |                             | 50      ...      West Virginia                     |
|                                |                             | 51      ...      Wisconsin                         |
|                                |                             | 52      ...      Wyoming                           |
|                                |                             | 53-58,60,<br>62,63      ...      Foreign Residents |
|                                |                             | 53      ...      Puerto Rico                       |
|                                |                             | 54<br>...      Virgin Islands                      |

Tape  
Location

Field  
Size

|    |     |                        |
|----|-----|------------------------|
| 55 | ... | Guam                   |
| 62 | ... | American Samoa         |
|    | 63  | ...                    |
|    |     | Northern Marianas      |
| 56 | ... | Canada                 |
| 57 | ... | Cuba                   |
| 58 | ... | Mexico                 |
| 60 | ... | Remainder of the world |

30-31

2

Expanded State of Residence (Cont'd)

|                          |     |   |
|--------------------------|-----|---|
| 53                       | ... | Puerto Rico   |
| 01-52,54-58,<br>60,62,63 | ... | Foreign residents: Refer<br>to U.S. for specific code<br>structure. |

|                          |     |   |
|--------------------------|-----|---|
| 54                       | ... | Virgin Islands  |
| 01-53,55-58,<br>60,62,63 | ... | Foreign residents: Refer<br>to U.S. for specific code<br>structure. |

|                             |     |   |
|-----------------------------|-----|---|
| 55                          | ... | Guam  |
| 01-52                       | ... | U.S. resident is also<br>considered a resident of<br>Guam.          |
| 53-54, 56-58,<br>60, 62, 63 | ... | Foreign residents: Refer<br>to U.S. for specific code<br>structure. |

|             |     |   |
|-------------|-----|---|
| 62          | ... | American Samoa  |
| 01-52       | ... | U.S. resident is also<br>considered a resident<br>of American Samoa . |
| 53-58,60,63 | ... | Foreign residents: Refer<br>to U.S. for specific<br>code structure.   |

|             |     |   |
|-------------|-----|---|
| 63          | ... | Northern Marianas   |
| 01-52       | ... | U.S. resident is also considered a resident of Northern Marianas. |
| 53-58,60,62 | ... | Foreign residents: Refer to U.S. for specific code structure.     |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
| 32-33                          | 2                           | <u>STATERES</u><br><u>State of Residence</u><br><br><u>United States occurrence</u><br>01           ...   Alabama<br>02           ...   Alaska<br>03           ...   Arizona<br>04           ...   Arkansas<br>05           ...   California<br>06           ...   Colorado<br>07           ...   Connecticut<br>08           ...   Delaware<br>09           ...   District of Columbia<br>10           ...   Florida  |
| 32-33                          | 2                           | <u>STATERES</u><br><u>State of Residence (Cont'd)</u><br>11           ...   Georgia<br>12           ...   Hawaii<br>13           ...   Idaho<br>14           ...   Illinois<br>15           ...   Indiana<br>16           ...   Iowa<br>17           ...   Kansas<br>18           ...   Kentucky<br>19           ...   Louisiana<br>20           ...   Maine<br>21           ...   Maryland<br>22           ...   Massachusetts<br>23           ...   Michigan<br>24           ...   Minnesota<br>25           ...   Mississippi<br>26           ...   Missouri<br>27           ...   Montana<br>28           ...   Nebraska<br>29           ...   Nevada<br>30           ...   New Hampshire<br>31           ...   New Jersey<br>32           ...   New Mexico<br>33           ...   New York<br>34           ...   North Carolina<br>35           ...   North Dakota<br>36           ...   Ohio<br>37           ...   Oklahoma<br>38           ...   Oregon<br>39           ...   Pennsylvania<br>40           ...   Rhode Island<br>41           ...   South Carolina<br>42           ...   South Dakota<br>43           ...   Tennessee<br>44           ...   Texas<br>45           ...   Utah<br>46           ...   Vermont<br>47           ...   Virginia<br>48           ...   Washington<br>49           ...   West Virginia |

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

|           |     |                        |
|-----------|-----|------------------------|
| 50        | ... | Wisconsin              |
| 51        | ... | Wyoming                |
| 52-57,59, |     |                        |
| 61,62     | ... | Foreign Residents      |
| 52        | ... | Puerto Rico            |
| 53        | ... | Virgin Islands         |
| 54        | ... | Guam                   |
| 61        | ... | American Samoa         |
| 62        | ... | Northern Marianas      |
| 55        | ... | Canada                 |
| 56        | ... | Cuba                   |
| 57        | ... | Mexico                 |
| 59        | ... | Remainder of the world |

32-33

2

STATERES

State of Residence (Cont'd)

Puerto Rico occurrence

|                 |     |                                   |
|-----------------|-----|-----------------------------------|
| 52              | ... | Puerto Rico                       |
| 01-51,53-57,59, | ... | Foreign Residents: Refer to       |
| 61,62           |     | U.S. for specific code structure. |

Virgin Islands occurrence

|                 |     |                                   |
|-----------------|-----|-----------------------------------|
| 53              | ... | Virgin Islands                    |
| 01-52,54-57,59, | ... | Foreign Residents: Refer to       |
| 61,62           |     | U.S. for specific code structure. |

Guam occurrence

|                 |     |  |
|-----------------|-----|--|
| 54              | ... | Guam   |
| 01-51           | ... | U.S. resident is also considered a resident of Guam. |
| 52-53,55-57,59, | ... | Foreign Residents: Refer to                          |
| 61,62           |     | U.S. for specific code structure.                    |

American Samoa occurrence

|             |     |   |
|-------------|-----|---|
| 61          | ... | American Samoa  |
| 01-51       | ... | U.S. resident is also considered a resident of American Samoa |
| 52-57,59,62 | ... | Foreign Residents: Refer to U.S. for specific code structure. |

Northern Marianas occurrence

|    |     |                   |
|----|-----|-------------------|
| 62 | ... | Northern Marianas |
|----|-----|-------------------|

Tape  
Location

Field  
Size

|             |  |
|-------------|--|
| 01-51       | ... U.S resident is also considered a resident of Northern Marianas. |
| 52-57,59,61 | ... Foreign Residents: Refer to U.S. for specific code structure.    |

34-36

3

CNTYRES  
County of Residence

A complete list of counties is shown in the Geographic Code Outline further back in this document.

```

001-nnn          ... Counties and county
                    equivalents (independent and
                    coextensive cities) are
                    numbered alphabetically within
                    each State and identify each
                    county with a population of
                    100,000 or more in 1990.
                    (Note: To uniquely identify a
                    county, both the State and
                    county codes must be used.)
999              ... County of less than 100,000
                    population
ZZZ              ... Foreign Residents

```

37-39

3

CITYRES  
City of Residence

A complete list of cities is shown in the Geographic Code Outline further back in this document.

```
001-nnn      ...  Cities are numbered
                alphabetically within each
                state and identify  each city
```

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
|                          |                       | <p>with a population of 100,000 or more in 1990. (Note: To uniquely identify a city, both the State and city codes must be used. State, county and city codes may also be used.)</p> <p>999 ... Balance of county</p> <p>ZZZ</p> <p>... Foreign resident</p>  |
| 40                       | 1                     | <p><u>CITRSPOP</u><br/><u>Population Size of City of Residence</u></p> <p>Based on the results of the 1990 census</p> <p>0 ... Place of 1,000,000 or more</p> <p>1 ... Place of 500,000 to 1,000,000</p> <p>2 ... Place of 250,000 to 500,000</p> <p>3 ... Place of 100,000 to 250,000</p> <p>9 ... All other areas in the U.S.</p> <p>Z ... Foreign residents</p>  |
| 41                       | 1                     | <p><u>METRORES</u><br/><u>Metropolitan - Nonmetropolitan County of Residence</u></p> <p><b>NOTE:</b> VIRGIN ISLANDS, GUAM, NORTHERN MARIANAS AND AMERICAN SAMOA DO NOT HAVE ANY METROPOLITAN AREAS</p> <p>1 ... Metropolitan county</p> <p>2 ... Nonmetropolitan county</p> <p>Z ... Foreign residents</p>  |
| 42-57                    | 16                    | <p><u>FIPSRES</u><br/><u>Federal Information Processing Standards (FIPS)</u><br/><u>Geographic Codes (Residence)</u></p> <p>Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications. <b>Some Geographic Codes have changed to reflect the Results of the 1990 Census.</b></p> |
| 42-43                    | 2                     | <p><u>STRESFIP</u><br/><u>State of Residence (FIPS)</u></p> <p>00 ... Foreign residents</p> <p>01 ... Alabama</p>   |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>          |
|--------------------------------|-----------------------------|---------------------------------------|
|                                |                             | 02        ...    Alaska               |
|                                |                             | 04        ...    Arizona              |
|                                |                             | 05        ...    Arkansas             |
|                                |                             | 06        ...    California           |
|                                |                             | 08        ...    Colorado             |
|                                |                             | 09        ...    Connecticut          |
|                                |                             | 10        ...    Delaware             |
|                                |                             | 11        ...    District of Columbia |
|                                |                             | 12        ...    Florida              |
|                                |                             | 13        ...    Georgia              |
|                                |                             | 15        ...    Hawaii               |
|                                |                             | 16        ...    Idaho                |
|                                |                             | 17        ...    Illinois             |
|                                |                             | 18        ...    Indiana              |
|                                |                             | 19        ...    Iowa                 |
|                                |                             | 20        ...    Kansas               |
|                                |                             | 21        ...    Kentucky             |
|                                |                             | 22        ...    Louisiana            |
|                                |                             | 23        ...    Maine                |
|                                |                             | 24        ...    Maryland             |
|                                |                             | 25        ...    Massachusetts        |
|                                |                             | 26        ...    Michigan             |
|                                |                             | 27        ...    Minnesota            |
|                                |                             | 28        ...    Mississippi          |
|                                |                             | 29        ...    Missouri             |
|                                |                             | 30        ...    Montana              |
|                                |                             | 31        ...    Nebraska             |
|                                |                             | 32        ...    Nevada               |
|                                |                             | 33        ...    New Hampshire        |
|                                |                             | 34        ...    New Jersey           |

42-43

2

STRESFIP  
State of Residence (FIPS)(Cont'd)

|    |     |                |
|----|-----|----------------|
| 35 | ... | New Mexico     |
| 36 | ... | New York       |
| 37 | ... | North Carolina |
| 38 | ... | North Dakota   |
| 39 | ... | Ohio           |
| 40 | ... | Oklahoma       |
| 41 | ... | Oregon         |
| 42 | ... | Pennsylvania   |
| 44 | ... | Rhode Island   |
| 45 | ... | South Carolina |
| 46 | ... | South Dakota   |
| 47 | ... | Tennessee      |
| 48 | ... | Texas          |
| 49 | ... | Utah           |
| 50 | ... | Vermont        |
| 51 | ... | Virginia       |
| 53 | ... | Washington     |
| 54 | ... | West Virginia  |
| 55 | ... | Wisconsin      |
| 56 | ... | Wyoming        |

Puerto Rico occurrence

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
|                          |                       | <p>00-56,60,66,78,69 ... Foreign Residents: Refer to U.S. for specific code structure</p> <p>72 ... Puerto Rico</p> <p><u>Virgin Islands occurrence</u></p> <p>00-56,60,66,72,69 ... Foreign Residents: Refer to U.S. for specific code structure</p> <p>78 ... Virgin Islands</p> <p><u>Guam occurrence</u></p> <p>00,60,72,78,69 ... Foreign Residents: Refer to U.S. for specific code structure</p> <p>01-56 ... U.S. Resident is also considered a resident of Guam. Refer to U.S. for specific code structure</p> <p>66 ... Guam</p> <p><u>American Samoa occurrence</u></p> <p>00,66,72,78,69 ... Foreign Residents: Refer to U.S. for specific code structure</p> <p>01-56 ... U.S. Resident is also considered a resident of American Samoa. Refer to specific code structure</p> <p>60 ... American Samoa</p> |
| 42-43                    | 2                     | <p><u>STRESFIP</u></p> <p><u>State of Residence (FIPS)(Cont'd)</u></p> <p><u>Northern Marianas occurrence</u></p> <p>00,60,66,72,78 ... Foreign Residents: Refer to U.S. for specific code structure.</p> <p>01-56 ... U.S. Resident is also considered a resident of Northern Marianas. Refer to specific code structure.</p> <p>69 ... Northern Marianas</p>  |
| 44-46                    | 3                     | <p><u>CNTYRFIP</u></p> <p><u>County of Residence (FIPS)</u></p> <p>001-nnn ... Counties and county equivalents</p>  |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
|                                |                             | (independent and coextensive cities) are numbered alphabetically within each State. (Note: To uniquely identify a county, both the State and county codes must be used.) |
|                                |                             | 999                   ...                   County of  |
|                                |                             | less than 100,000 population   |
|                                |                             | 000                   ...                   Foreign  |
|                                |                             | residents  |

|        |  |   |       |                       |        |  |       |                |       |  |
|--------|--|---|-------|-----------------------|--------|--|-------|----------------|-------|--|
| 47-51  | 5  | <p><u>PLACEFIP</u><br/><u>Place (City) of Residence</u></p> <p>A complete list of cities is shown in the Geographic code outline further back in this document. Effective with the 1994 data year, the FIPS place code has been added to the Natality record. It identifies each city of 100,000 population or more in 1990.</p> <table border="0"> <tbody> <tr> <td>00000</td> <td>... Foreign residents</td> </tr> <tr> <td>00001-</td> <td></td> </tr> <tr> <td>nnnnn</td> <td>... Code range</td> </tr> <tr> <td>99999</td> <td>... Balance of county; or city of less than 100,000 population</td> </tr> </tbody> </table> | 00000 | ... Foreign residents | 00001- |  | nnnnn | ... Code range | 99999 | ... Balance of county; or city of less than 100,000 population |
| 00000  | ... Foreign residents  |   |       |                       |        |  |       |                |       |  |
| 00001- |  |   |       |                       |        |  |       |                |       |  |
| nnnnn  | ... Code range   |   |       |                       |        |  |       |                |       |  |
| 99999  | ... Balance of county; or city of less than 100,000 population |   |       |                       |        |  |       |                |       |  |

|       |   |  |    |                |    |   |    |  |    |   |
|-------|---|--|----|----------------|----|---|----|--|----|---|
| 52-53 | 2   | <p><u>CMSA</u><br/><u>CMSA of Residence (FIPS)</u></p> <p>Consolidated Metropolitan Statistical Areas are groupings of certain Primary Metropolitan Statistical Areas and are defined by the U.S. Office of Management and Budget (OMB) as of June 30, 1990.</p> <p><u>All AREAS</u></p> <table border="0"> <tbody> <tr> <td>00</td> <td>... Not a CMSA</td> </tr> </tbody> </table> <p><u>United States occurrence</u></p> <table border="0"> <tbody> <tr> <td>07</td> <td>... Boston-Worcester-Lawrence, MA-NH-ME<br/>CT, CMSA</td> </tr> <tr> <td>14</td> <td>... Chicago-Gary-Kenosha, IL-IN-WI, CMSA</td> </tr> <tr> <td>21</td> <td>... Cincinnati-Hamilton, OH-KY-IN, CMSA</td> </tr> </tbody> </table> | 00 | ... Not a CMSA | 07 | ... Boston-Worcester-Lawrence, MA-NH-ME<br>CT, CMSA | 14 | ... Chicago-Gary-Kenosha, IL-IN-WI, CMSA | 21 | ... Cincinnati-Hamilton, OH-KY-IN, CMSA |
| 00    | ... Not a CMSA                                      |  |    |                |    |   |    |  |    |   |
| 07    | ... Boston-Worcester-Lawrence, MA-NH-ME<br>CT, CMSA |  |    |                |    |   |    |  |    |   |
| 14    | ... Chicago-Gary-Kenosha, IL-IN-WI, CMSA            |  |    |                |    |   |    |  |    |   |
| 21    | ... Cincinnati-Hamilton, OH-KY-IN, CMSA             |  |    |                |    |   |    |  |    |   |

Tape  
Location

### Item and Code Outline

```

28      ... Cleveland-Akron, OH, CMSA
31      ... Dallas-Fort Worth, TX, CMSA
34      ... Denver-Boulder-Greeley, CO, CMSA
35      ... Detroit-Ann Arbor-Flint, MI, CMSA
42      ... Houston-Galveston-Brazoria, TX, CMSA
49      ... Los Angeles-Riverside-Orange County,
      CA, CMSA
56      ... Miami-Fort Lauderdale, FL, CMSA
63      ... Milwaukee-Racine, WI, CMSA
70      ... New York-Northern New Jersey-Long
      Island, NY-NJ-CT-PA, CMSA
77      ... Philadelphia-Wilmington-Atlantic
      City, PA-NJ-DE-MD, CMSA

79      ... Portland-Salem, OR-WA, CMSA

82      ... Sacramento-Yolo, CA, CMSA
84      ... San Francisco-Oakland-San Jose, CA, CMSA
91      ... Seattle-Tacoma-Bremerton, WA, CMSA
97      ... Washington-Baltimore, DC-MD-VA-WV,
      CMSA

```

87 ... San Juan-Caguas-Arecibo, PR, CMSA

54-57

4

## PMSA/MSA of Residence (FIPS)

Primary Metropolitan Statistical Areas and Metropolitan Statistical Areas are those defined by the U.S. Office of Management and Budget as of 1990. For New England, the New England County Metropolitan Areas (NECMA's) are used. Further back in this document is a list of PMSA's, MSA's, NECMA's, and their component counties.

```
0000          ... Nonmetropolitan counties or
              foreign residents
0040-9360 ... Code range
9999        ... Area of less than 100,000 population
```

58

1

Population Size of County of Residence

Based on the results of the 1990 Census.

|   |     |                  |                      |
|---|-----|------------------|----------------------|
| 0 | ... | County of        | 1,000,000 or more    |
| 1 | ... | County of        | 500,000 to 1,000,000 |
| 2 | ... | County of        | 250,000 to 500,000   |
| 3 | ... | County of        | 100,000 to 250,000   |
| 9 | ... | County of        | less than 100,000    |
| Z | ... | Foreign resident |                      |

59-67

9

### Reserved Positions

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------|-----------------------|--|
| 68                       | 1                     | <p><u>MAGERFLG</u><br/><u>Reported Age of Mother Used Flag</u></p> <p>This position is flagged whenever the mother's reported age is used. The reported age is used, if valid, when age could not be computed or when the computed age is outside the 10-54 code range.</p> <p>Blank        ...      Reported age is not used<br/>1            ...      Reported age is used</p>   |
| 69                       | 1                     | <p><u>MAGEIMP</u><br/><u>Age of Mother Imputation Flag</u></p> <p>Blank        ...      Age is not imputed<br/>1            ...      Age is imputed</p>  |
| 70-71                    | 2                     | <p><u>DMAGE</u><br/><u>Age of Mother</u></p> <p>This item is: a) computed using dates of birth of mother and of delivery; b) reported; or c) imputed. This is the age item used in NCHS publications.</p> <p>10-54        ...      Age in single years</p>   |
| 72-73                    | 2                     | <p><u>MAGE36</u><br/><u>Age of Mother Recode 36</u></p> <p>01            ...      Under 15 years<br/>02            ...      15 years<br/>03            ...      16 years<br/>04            ...      17 years<br/>05            ...      18 years<br/>06            ...      19 years<br/>07            ...      20 years<br/>08            ...      21 years<br/>09            ...      22 years<br/>10            ...      23 years<br/>11            ...      24 years<br/>12            ...      25 years</p> |
| 72-73                    | 2                     | <p><u>MAGE36</u><br/><u>Age of Mother Recode 36 (Cont'd)</u></p> <p>13            ...      26 years<br/>14            ...      27 years<br/>15            ...      28 years<br/>16            ...      29 years<br/>17            ...      30 years<br/>18            ...      31 years<br/>19            ...      32 years<br/>20            ...      33 years<br/>21            ...      34 years<br/>22            ...      35 years</p>  |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u> |
|--------------------------------|-----------------------------|------------------------------|
|                                |                             | 23       ...    36 years     |
|                                |                             | 24       ...    37 years     |
|                                |                             | 25       ...    38 years     |
|                                |                             | 26       ...    39 years     |
|                                |                             | 27       ...    40 years     |
|                                |                             | 28       ...    41 years     |
|                                |                             | 29       ...    42 years     |
|                                |                             | 30       ...    43 years     |
|                                |                             | 31       ...    44 years     |
|                                |                             | 32       ...    45 years     |
|                                |                             | 33       ...    46 years     |
|                                |                             | 34       ...    47 years     |
|                                |                             | 35       ...    48 years     |
|                                |                             | 36       ...    49 years     |
|                                |                             | 37       ...    50 years     |
|                                |                             | 38       ...    51 years     |
|                                |                             | 39       ...    52 years     |
|                                |                             | 40       ...    53 years     |
|                                |                             | 41       ...    54 years     |

74-75                      2

MAGE12  
Age of Mother Recode 12

|    |     |                |
|----|-----|----------------|
| 01 | ... | Under 15 years |
| 03 | ... | 15 years       |
| 04 | ... | 16 years       |
| 05 | ... | 17 years       |
| 06 | ... | 18 years       |
| 07 | ... | 19 years       |
| 08 | ... | 20 - 24 years  |
| 09 | ... | 25 - 29 years  |
| 10 | ... | 30 - 34 years  |
| 11 | ... | 35 - 39 years  |
| 12 | ... | 40 - 44 years  |
| 13 | ... | 45 - 49 years  |
| 14 | ... | 50 - 54 years  |

76                              1

MAGE8  
Age of Mother Recode 8

|   |     |                |
|---|-----|----------------|
| 1 | ... | Under 15 years |
| 2 | ... | 15 - 19 years  |
| 3 | ... | 20 - 24 years  |
| 4 | ... | 25 - 29 years  |
| 5 | ... | 30 - 34 years  |
| 6 | ... | 35 - 39 years  |
| 7 | ... | 40 - 44 years  |
| 8 | ... | 45 - 49 years  |

Tape  
Location

## Item and Code Outline

77

1

Hispanic origin is reported by all areas except  
Puerto Rico, Northern Marianas, and American Samoa

78

1

Hispanic origin is reported by all areas except Puerto Rico, Northern Marianas, and American Samoa

79

1

```
Blank      ...    Race is not imputed
1          ...    Unknown race is imputed
2          ...    All other races, formerly code 09,
                  is imputed
```

80-81

2

## United States occurrence

( 29 )

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

(all other races) used prior to 1992 has been imputed.

01  
... White

|    |     |   |
|----|-----|---|
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos)   |
| 04 | ... | Chinese   |
| 05 | ... | Japanese  |
| 06 | ... | Hawaiian (includes part-Hawaiian)   |
| 07 | ... | Filipino  |
| 18 | ... | Asian Indian  |
| 28 | ... | Korean  |
| 38 | ... | Samoan  |
| 48 | ... | Vietnamese  |
| 58 | ... | Guamanian   |
| 68 | ... | Other Asian or Pacific Islander in areas reporting codes 18-58  |
| 78 | ... | Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately |

Puerto Rico occurrence

|    |     |             |
|----|-----|-------------|
| 01 | ... | White       |
| 02 | ... | Black       |
| 00 | ... | Other races |

Virgin Islands occurrence

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |

80-81

2

MRACE  
Race of Mother (Cont'd)

Guam occurrence

2001  
Detail Natality Record

**Tape**  
**Location**

**Field**  
**Size**

**Item and Code Outline**

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |
| 58 | ... | Guamanian                                     |

**American Samoa occurrence**

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |

**Northern Marianas occurrence**

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
|    | ... | Other Asian or Pacific Islander               |

82

1

**MRACE3**

**Race of Mother Recode**

**For All Areas**

|   |     |                                 |
|---|-----|---------------------------------|
| 1 | ... | White                           |
| 2 | ... | Races other than White or Black |
| 3 | ... | Black                           |

83-84

2

**DMEDUC**

**Education of Mother**

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

Effective with 1992 data, all areas report education.

|       |     |                            |
|-------|-----|----------------------------|
| 00    | ... | No formal education        |
| 01-08 | ... | Years of elementary school |
| 09    | ... | 1 year of high school      |
| 10    | ... | 2 years of high school     |
| 11    | ... | 3 years of high school     |
| 12    | ... | 4 years of high school     |
| 13    | ... | 1 year of college          |
| 14    | ... | 2 years of college         |
| 15    | ... | 3 years of college         |
| 16    | ... | 4 years of college         |
| 17    | ... | 5 or more years of college |
| 99    | ... | Not stated                 |

85

1

MEDUC6  
Education of Mother Recode

|   |     |                   |
|---|-----|-------------------|
| 1 | ... | 0 - 8 years       |
| 2 | ... | 9 - 11 years      |
| 3 | ... | 12 years          |
| 4 | ... | 13 - 15 years     |
| 5 | ... | 16 years and over |
| 6 | ... | Not stated        |

86

1

DMARIMP  
Marital Status of Mother Imputation Flag

|       |     |                               |
|-------|-----|-------------------------------|
| Blank | ... | Marital Status is not imputed |
| 1     | ... | Marital Status is imputed     |

87

1

DMAR  
Marital Status of Mother

Marital status is not reported by all areas. See reporting flags.

United States/Virgin Islands/Guam/American Samoa/Northern Marianas

|   |     |                       |
|---|-----|-----------------------|
| 1 | ... | Married               |
| 2 | ... | Unmarried             |
| 9 | ... | Unknown or not stated |

Puerto Rico

|   |     |                                       |
|---|-----|---------------------------------------|
| 1 | ... | Married                               |
| 2 | ... | Unmarried parents living together     |
| 3 | ... | Unmarried parents not living together |
| 9 | ... | Unknown or not stated                 |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>                     |
|--------------------------------|-----------------------------|--|
| 88-89                          | 2                           | <u>MPLBIR</u><br><u>Place of Birth of Mother</u> |
|                                |                             | 01      ...      Alabama                         |
|                                |                             | 02      ...      Alaska                          |
|                                |                             | 03      ...      Arizona                         |
|                                |                             | 04      ...      Arkansas                        |
|                                |                             | 05      ...      California                      |
|                                |                             | 06      ...      Colorado                        |
|                                |                             | 07      ...      Connecticut                     |
|                                |                             | 08      ...      Delaware                        |
|                                |                             | 09      ...      District of Columbia            |
|                                |                             | 10      ...      Florida                         |
|                                |                             | 11      ...      Georgia                         |
|                                |                             | 12      ...      Hawaii                          |
|                                |                             | 13      ...      Idaho                           |
|                                |                             | 14      ...      Illinois                        |
|                                |                             | 15      ...      Indiana                         |
|                                |                             | 16      ...      Iowa                            |
|                                |                             | 17      ...      Kansas                          |
|                                |                             | 18      ...      Kentucky                        |
|                                |                             | 19      ...      Louisiana                       |
|                                |                             | 20      ...      Maine                           |
|                                |                             | 21      ...      Maryland                        |
|                                |                             | 22      ...      Massachusetts                   |
|                                |                             | 23      ...      Michigan                        |
|                                |                             | 24      ...      Minnesota                       |
|                                |                             | 25      ...      Mississippi                     |
|                                |                             | 26      ...      Missouri                        |
|                                |                             | 27      ...      Montana                         |
|                                |                             | 28      ...      Nebraska                        |
|                                |                             | 29      ...      Nevada                          |
|                                |                             | 30      ...      New Hampshire                   |
|                                |                             | 31      ...      New Jersey                      |
|                                |                             | 32      ...      New Mexico                      |
|                                |                             | 33      ...      New York                        |
|                                |                             | 34      ...      North Carolina                  |
|                                |                             | 35      ...      North Dakota                    |
|                                |                             | 36      ...      Ohio                            |
|                                |                             | 37      ...      Oklahoma                        |
|                                |                             | 38      ...      Oregon                          |
|                                |                             | 39      ...      Pennsylvania                    |
|                                |                             | 40      ...      Rhode Island                    |
|                                |                             | 41      ...      South Carolina                  |
|                                |                             | 42      ...      South Dakota                    |
|                                |                             | 43      ...      Tennessee                       |
|                                |                             | 44      ...      Texas                           |
|                                |                             | 45      ...      Utah                            |
|                                |                             | 46      ...      Vermont                         |
|                                |                             | 47      ...      Virginia                        |
|                                |                             | 48      ...      Washington                      |
|                                |                             | 49      ...      West Virginia                   |
|                                |                             | 50      ...      Wisconsin                       |
|                                |                             | 51      ...      Wyoming                         |
|                                |                             | 52      ...      Puerto Rico                     |
|                                |                             | 53      ...      Virgin Islands                  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
| 88-89                    | 2                     | 54           ...   Guam   |
|                          |                       | 61           ...   American Samoa   |
|                          |                       | <u>MPLBIR</u>   |
|                          |                       | <u>Place of Birth of Mother (Cont'd)</u>  |
|                          |                       | 62           ...   Northern Marianas  |
|                          |                       | 55           ...   Canada   |
|                          |                       | 56           ...   Cuba   |
|                          |                       | 57           ...   Mexico   |
|                          |                       | 59           ...   Remainder of the World   |
|                          |                       | 99           ...   Not classifiable   |
| 90                       | 1                     | <u>MPLBIRR</u>  |
|                          |                       | <u>Place of Birth of Mother Recode</u>  |
|                          |                       | 1           ...   Native born   |
|                          |                       | 2           ...   Foreign born  |
|                          |                       | 3           ...   Unknown or not stated   |
| 91-92                    | 2                     | <u>DMAGERPT</u>   |
|                          |                       | <u>Reported Age of Mother</u>   |
|                          |                       | 10-54       ...   Age in single years   |
|                          |                       | 99           ...   Unknown or not stated  |
| 93                       | 1                     | <u>ADEQUACY</u>   |
|                          |                       | <u>Adequacy Of Care Recode (Kessner Index)</u>  |
|                          |                       | This recode is based on a modified Kessner criterion. Month Prenatal Care Began, Number of Prenatal Visits, and Gestation are the items used to generate this recode. |
|                          |                       | 1           ...   Adequate  |
|                          |                       | 2           ...   Intermediate  |
|                          |                       | 3           ...   Inadequate  |
|                          |                       | 4           ...   Unknown   |
|                          |                       |   |
|                          |                       |   |
|                          |                       |   |
| 94-95                    | 2                     | <u>NLBNL</u>  |
|                          |                       | <u>Number of Live Births, Now Living</u>  |
|                          |                       | Does not include this birth or adoptions.   |
|                          |                       | 00-30       ...   Stated number of births   |
|                          |                       | 99           ...   Unknown or not stated  |
| 96-97                    | 2                     | <u>NLBND</u>  |
|                          |                       | <u>Number of Live Births, Now Dead</u>  |
|                          |                       | Does not include this birth or adoptions.   |
|                          |                       | 00-30       ...   Stated number of births   |
|                          |                       | 99           ...   Unknown or not stated  |
| 98-99                    | 2                     | <u>NOTERM</u>   |
|                          |                       | <u>Number of Other Terminations</u>   |
|                          |                       | Includes spontaneous and induced at any time after  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------|-----------------------|--|
|                          |                       | conception.  |
|                          |                       | 00-30      ...      Stated number of other terminations  |
|                          |                       | 99          ...      Unknown or not stated   |
| 100-101                  | 2                     | <u>DLIVORD</u><br><u>Detail Live Birth Order</u>   |
|                          |                       | Sum of live births now living and now dead plus one.<br>If either item is unknown, this item is made<br>unknown. |
|                          |                       | 00-31      ...      Number of children born alive to<br>mother   |
|                          |                       | 99          ...      Unknown   |
| 102                      | 1                     | <u>LIVORD9</u><br><u>Live Birth Order Recode</u>   |
|                          |                       | 1            ...      First Child  |
|                          |                       | 2            ...      Second Child   |
|                          |                       | 3            ...      Third Child  |
|                          |                       | 4            ...      Fourth Child   |
|                          |                       | 5            ...      Fifth Child  |
|                          |                       | 6            ...      Sixth Child  |
|                          |                       | 7            ...      Seventh Child  |
|                          |                       | 8            ...      Eighth Child and over  |
|                          |                       | 9            ...      Unknown or not stated  |
| 103-104                  | 2                     | <u>DTOTORD</u><br><u>Detail Total Birth Order</u>  |
|                          |                       | Sum of live birth order and other terminations.<br>If either item is unknown, this item is made<br>unknown.      |
|                          |                       | 01-40      ...      Total number of live births and<br>other terminations  |
|                          |                       | 99          ...      Unknown   |
| 105                      | 1                     | <u>TOTORD9</u><br><u>Total Birth Order Recode</u>  |
|                          |                       | 1            ...      First Child  |
|                          |                       | 2            ...      Second Child   |
|                          |                       | 3            ...      Third Child  |
|                          |                       | 4            ...      Fourth Child   |
|                          |                       | 5            ...      Fifth Child  |
|                          |                       | 6            ...      Sixth Child  |
|                          |                       | 7            ...      Seventh Child  |
|                          |                       | 8            ...      Eighth Child and over  |
|                          |                       | 9            ...      Unknown or not stated  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
| 106-107                  | 2                     | <u>MONPRE</u><br><u>Detail Month of Pregnancy Prenatal Care Began</u><br><br>00           ...    No prenatal care<br>01           ...    1st month<br>02           ...    2nd month<br>03           ...    3rd month<br>04           ...    4th month<br>05           ...    5th month<br>06           ...    6th month<br>07           ...    7th month<br>08           ...    8th month<br>09           ...    9th month<br>99           ...    Unknown or not stated |
| 108                      | 1                     | <u>MPRE6</u><br><u>Month Prenatal Care Began Recode 6</u><br><br>1            ...    1st - 2nd month<br>2            ...    3rd month<br>3            ...    4th - 6th month<br>4            ...    7th - 9th month<br>5            ...    No prenatal care<br>6            ...    Unknown or not stated  |
| 109                      | 1                     | <u>MPRE5</u><br><u>Month Prenatal Care Began Recode 5</u><br><br>1            ...    1st Trimester (1st-3rd month)<br>2            ...    2nd Trimester (4th-6th month)<br>3            ...    3rd Trimester (7th-9th month)<br>4            ...    No Prenatal Care<br>5            ...    Unknown or not stated   |
| 110-111                  | 2                     | <u>NPREVIS</u><br><u>Total Number of Prenatal Visits</u><br><br>00           ...    No prenatal visits<br>01-48       ...    Stated number of visits<br>49           ...    49 or more visits<br>99           ...    Unknown or not stated  |
| 112-113                  | 2                     | <u>NPREV12</u><br><u>Number of Prenatal Visits Recode</u><br><br>01           ...    No visits<br>02           ...    1 - 2 visits<br>03           ...    3 - 4 visits<br>04           ...    5 - 6 visits<br>05           ...    7 - 8 visits  |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>                                  |
|--------------------------------|-----------------------------|---|
|                                |                             | 06           ...    9 - 10 visits                             |
|                                |                             | 07           ...    11 - 12 visits                            |
|                                |                             | 08           ...    13 - 14 visits                            |
|                                |                             | 09           ...    15 - 16 visits                            |
|                                |                             | 10           ...    17 - 18 visits                            |
|                                |                             | 11           ...    19 visits or more                         |
|                                |                             | 12           ...    Unknown or not stated number of<br>visits |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------|-----------------------|---|
| 114-121                  | 8                     | <u>LMPDATE</u><br><u>Date Last Normal Menses Began</u>                                      |
| 114-115                  | 2                     | <u>LMPMON</u><br><u>Month Last Normal Menses Began</u>                                      |
|                          |                       | 01           ...   January  |
|                          |                       | 02           ...   February   |
|                          |                       | 03           ...   March  |
|                          |                       | 04           ...   April  |
|                          |                       | 05           ...   May  |
|                          |                       | 06           ...   June   |
|                          |                       | 07           ...   July   |
|                          |                       | 08           ...   August   |
|                          |                       | 09           ...   September  |
|                          |                       | 10           ...   October  |
|                          |                       | 11           ...   November   |
|                          |                       | 12           ...   December   |
|                          |                       | 99           ...   Unknown or not stated month of LMP                                       |
| 116-117                  | 2                     | <u>LMPDAY</u><br><u>Day Last Normal Menses Began</u>  |
|                          |                       | 01-31       ...   As applicable to month of LMP   |
|                          |                       | 99           ...   Unknown or not stated day of LMP   |
| 118-121                  | 4                     | <u>LMPYR</u><br><u>Year Last Normal Menses Began</u>  |
|                          |                       | 2000       ...   2000   |
|                          |                       | 2001       ...   2001   |
|                          |                       | 9999       ...   Unknown or not stated year of LMP  |
| 122-132                  | 11                    | <u>R8</u><br><u>Reserved Positions</u>  |
| 133-137                  | 5                     | <u>Imputed Birthweight (applicable to denominator for<br/>Linked Birth/Death file only)</u> |
|                          |                       | Created beginning with 1995 data  |
| 133                      | 1                     | <u>BWIMP (applicable to denominator for linked Birth/Death<br/>file only)</u>               |
|                          |                       | <u>Imputed Birthweight Flag</u>   |
|                          |                       | Blank       ...   Birthweight is not imputed  |
|                          |                       | 1           ...   Birthweight is imputed  |
| 134-137                  | 4                     | <u>Imputed Birthweight (applicable to denominator for<br/>Linked Birth/Death file only)</u> |
|                          |                       | 0227-8165   ...   Number of grams   |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------|-----------------------|--|
| 138-152                  | 15                    | <u>R2</u><br><u>Reserved Positions</u>   |
| 153                      | 1                     | <u>FAGERFLG</u><br><u>Reported Age of Father Used Flag</u><br><br>This position is flagged whenever the father's reported age in years is used. The reported age is used, if valid, when age derived from date of birth is not available or when it is less than 10.<br><br>Blank        ...    Reported age is not used<br>1            ...    Reported age is used   |
| 154-155                  | 2                     | <u>DFAGE</u><br><u>Age of Father</u><br><br>This item is either computed from date of birth of father and of child or is the reported age. This is the age item used in NCHS publications.<br><br>10-98        ...    Age in single years<br>99            ...    Unknown or not stated  |
| 156-157                  | 2                     | <u>FAGE11</u><br><u>Age of Father Recode</u><br><br>01            ...    Under 15 years<br>02            ...    15 - 19 years<br>03            ...    20 - 24 years<br>04            ...    25 - 29 years<br>05            ...    30 - 34 years<br>06            ...    35 - 39 years<br>07            ...    40 - 44 years<br>08            ...    45 - 49 years<br>09            ...    50 - 54 years<br>10            ...    55 - 98 years<br>11            ...    Not stated |
| 158                      | 1                     | <u>ORFATH</u><br><u>Hispanic Origin of Father</u><br><br>Hispanic origin of father is reported by all areas except Puerto Rico, Northern Marianas and American Samoa<br><br>0            ...    Non - Hispanic<br>1            ...    Mexican<br>2            ...    Puerto Rican<br>3            ...    Cuban<br>4            ...    Central or South American<br>5            ...    Other and unknown Hispanic<br>9            ...    Origin unknown or not stated            |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
|--------------------------------|-----------------------------|---|----|-----|---------|----|-----|--------------|----|-----|---|----|-----|---------------------------|----|-----|----------------------------|----|-----|-----------------------------------|----|-----|----------------------|----|-----|--------------------------------------|----|-----|------------------------------|----|-----|--------|----|-----|------------|----|-----|-----------|----|-----|--|----|-----|---|----|-----|-----------------------|
| 159                            | 1                           | <p><b><u>ORRACEF</u></b><br/> <b><u>Hispanic Origin and Race of Father Recode</u></b><br/> Hispanic origin of father is reported by all areas except Puerto Rico, Northern Marianas and American Samoa.</p> <table> <tr><td>1</td><td>...</td><td>Mexican</td></tr> <tr><td>2</td><td>...</td><td>Puerto Rican</td></tr> <tr><td>3</td><td>...</td><td>Cuban</td></tr> <tr><td>4</td><td>...</td><td>Central or South American</td></tr> <tr><td>5</td><td>...</td><td>Other and unknown Hispanic</td></tr> <tr><td>6</td><td>...</td><td>Non - Hispanic White</td></tr> <tr><td>7</td><td>...</td><td>Non - Hispanic Black</td></tr> <tr><td>8</td><td>...</td><td>Non - Hispanic other or unknown race</td></tr> <tr><td>9</td><td>...</td><td>Origin unknown or not stated</td></tr> </table>  | 1  | ... | Mexican | 2  | ... | Puerto Rican | 3  | ... | Cuban   | 4  | ... | Central or South American | 5  | ... | Other and unknown Hispanic | 6  | ... | Non - Hispanic White              | 7  | ... | Non - Hispanic Black | 8  | ... | Non - Hispanic other or unknown race | 9  | ... | Origin unknown or not stated |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 1                              | ...                         | Mexican   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 2                              | ...                         | Puerto Rican  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 3                              | ...                         | Cuban   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 4                              | ...                         | Central or South American   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 5                              | ...                         | Other and unknown Hispanic  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 6                              | ...                         | Non - Hispanic White  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 7                              | ...                         | Non - Hispanic Black  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 8                              | ...                         | Non - Hispanic other or unknown race  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 9                              | ...                         | Origin unknown or not stated  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 160-161                        | 2                           | <p><b><u>FRACE</u></b><br/> <b><u>Race of Father</u></b><br/> <b><u>United States occurrence</u></b><br/> Beginning with 1992 data, some areas started reporting additional Asian or Pacific Islander codes for race. Codes 18-68 replace old code 08 for these areas. Code 78 replaces old code 08 for all other areas. For consistency with Census race code 09 (all other races) used prior to 1992 has been Changed to 99.</p> <table> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>03</td><td>...</td><td>American Indian (includes Aleuts and Eskimos)</td></tr> <tr><td>04</td><td>...</td><td>Chinese</td></tr> <tr><td>05</td><td>...</td><td>Japanese</td></tr> <tr><td>06</td><td>...</td><td>Hawaiian (includes part-Hawaiian)</td></tr> <tr><td>07</td><td>...</td><td>Filipino</td></tr> <tr><td>18</td><td>...</td><td>Asian Indian</td></tr> <tr><td>28</td><td>...</td><td>Korean</td></tr> <tr><td>38</td><td>...</td><td>Samoan</td></tr> <tr><td>48</td><td>...</td><td>Vietnamese</td></tr> <tr><td>58</td><td>...</td><td>Guamanian</td></tr> <tr><td>68</td><td>...</td><td>Other Asian or Pacific Islander in areas reporting codes 18-58</td></tr> <tr><td>78</td><td>...</td><td>Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately</td></tr> <tr><td>99</td><td>...</td><td>Unknown or Not Stated</td></tr> </table> | 01 | ... | White   | 02 | ... | Black        | 03 | ... | American Indian (includes Aleuts and Eskimos) | 04 | ... | Chinese                   | 05 | ... | Japanese                   | 06 | ... | Hawaiian (includes part-Hawaiian) | 07 | ... | Filipino             | 18 | ... | Asian Indian                         | 28 | ... | Korean                       | 38 | ... | Samoan | 48 | ... | Vietnamese | 58 | ... | Guamanian | 68 | ... | Other Asian or Pacific Islander in areas reporting codes 18-58 | 78 | ... | Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately | 99 | ... | Unknown or Not Stated |
| 01                             | ...                         | White   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 02                             | ...                         | Black   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 03                             | ...                         | American Indian (includes Aleuts and Eskimos)   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 04                             | ...                         | Chinese   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 05                             | ...                         | Japanese  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 06                             | ...                         | Hawaiian (includes part-Hawaiian)   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 07                             | ...                         | Filipino  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 18                             | ...                         | Asian Indian  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 28                             | ...                         | Korean  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 38                             | ...                         | Samoan  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 48                             | ...                         | Vietnamese  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 58                             | ...                         | Guamanian   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 68                             | ...                         | Other Asian or Pacific Islander in areas reporting codes 18-58  |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 78                             | ...                         | Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |
| 99                             | ...                         | Unknown or Not Stated   |    |     |         |    |     |              |    |     |   |    |     |                           |    |     |                            |    |     |                                   |    |     |                      |    |     |                                      |    |     |                              |    |     |        |    |     |            |    |     |           |    |     |  |    |     |   |    |     |                       |

2001  
Detail Natality Record

Tape  
Location

Field  
Size

Item and Code Outline

160-161

2

FRACE

Race of Father (Cont'd)

Puerto Rico occurrence

|    |     |                       |
|----|-----|-----------------------|
| 01 | ... | White                 |
| 02 | ... | Black                 |
| 00 | ... | Other races           |
| 99 | ... | Unknown or not stated |

Virgin Islands occurrence

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |
| 99 | ... | Unknown or Not Stated                         |

Guam occurrence

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |
| 58 | ... | Guamanian                                     |
| 99 | ... | Unknown or Not Stated                         |

American Samoa occurrence

|    |     |   |
|----|-----|---|
| 01 | ... | White   |
| 02 | ... | Black   |
| 03 | ... | American Indian (includes Aleuts and Eskimos) |
| 04 | ... | Chinese                                       |
| 05 | ... | Japanese                                      |
| 06 | ... | Hawaiian (includes part-Hawaiian)             |
| 07 | ... | Filipino                                      |
| 08 | ... | Other Asian or Pacific Islander               |
| 99 | ... | Unknown or Not Stated                         |

Northern Marianas occurrence

|    |     |       |
|----|-----|-------|
| 01 | ... | White |
| 02 | ... | Black |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------------|-----------------------------|---|
|                                |                             | 03           ...   American Indian (includes Aleuts and Eskimos)                                  |
|                                |                             | 04           ...   Chinese  |
|                                |                             | 05           ...   Japanese   |
|                                |                             | 06           ...   Hawaiian (includes part-Hawaiian)  |
|                                |                             | 07           ...   Filipino   |
|                                |                             | 08           ...   Other Asian or Pacific Islander  |
| 162                            | 1                           | <u>FRACE4</u><br><u>Race of Father Recode</u>   |
|                                |                             | 1           ...   White   |
|                                |                             | 2           ...   Races other than White, Black, or unknown                                       |
|                                |                             | 3           ...   Black   |
|                                |                             | 4           ...   Unknown or not stated   |
| 163-165                        | 3                           | <u>R2A</u><br><u>Reserved positions</u>   |
| 166-167                        | 2                           | <u>DFAGERPT</u><br><u>Reported Age of Father</u>  |
|                                |                             | 10-98       ...   Age in single years   |
|                                |                             | 99           ...   Unknown or not stated  |
| 168                            | 1                           | <u>FRACEIMP</u><br><u>Race of Father Imputation Flag</u>  |
|                                |                             | (Unknown race of father is not imputed. However, the all other races code is changed to unknown.) |
|                                |                             | Blank       ...   Race is not changed   |
|                                |                             | 3           ...   All other races, formerly code 09, is changed to code 99                        |
| 169                            | 1                           | <u>R3</u><br><u>Reserved Position</u>   |
| 170                            | 1                           | <u>CDOBMIMP</u><br><u>Month of Birth of Child Imputation Flag</u>                                 |
|                                |                             | Blank       ...   Month is not imputed  |
|                                |                             | 1           ...   Month is imputed  |
| 171                            | 1                           | <u>RB</u><br><u>Reserved Position</u>   |
| 172-173                        | 2                           | <u>BIRMON</u><br><u>Month of Birth</u>  |
|                                |                             | 01           ...   January  |
|                                |                             | 02           ...   February   |
|                                |                             | 03           ...   March  |
|                                |                             | 04           ...   April  |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------------|-----------------------------|---|
|                                |                             | 05           ...    May<br>06           ...    June<br>07           ...    July<br>08           ...    August<br>09           ...    September<br>10           ...    October<br>11           ...    November<br>12           ...    December   |
| 174-175                        | 2                           | <b>RC</b><br><u>Reserved Positions</u>  |
| 176-179                        | 4                           | <b>BIRYR</b><br><u>Year of Birth</u><br><br>2001           ...    2001  |
| 180                            | 1                           | <b>WEEKDAY</b><br><u>Day of Week Child Born</u><br><br>1           ...    Sunday<br>2           ...    Monday<br>3           ...    Tuesday<br>4           ...    Wednesday<br>5           ...    Thursday<br>6           ...    Friday<br>7           ...    Saturday  |
| 181                            | 1                           | <b>GESTESTM</b><br><u>Clinical Estimate of Gestation Used Flag</u><br><br>This position is flagged whenever the clinical estimate of gestation is used. It is used when gestation could not be computed or when the computed gestation is outside the 17-47 code range.<br><br>Blank           ...    Clinical Estimate is not used<br>1               ...    Clinical Estimate is used |
| 182                            | 1                           | <b>GESTIMP</b><br><u>Gestation Imputation Flag</u><br><br>Blank           ...    Gestation is not imputed<br>1               ...    Gestation is imputed  |
| 183-184                        | 2                           | <b>DGESTAT</b><br><u>Gestation - Detail in Weeks</u><br><br>This item is: a) computed using dates of birth of child and last normal menses; b) imputed from LMP date; c) the clinical estimate; or d) unknown when there is insufficient data to impute or no valid clinical estimate. This is the gestation item used in NCHS publications.  |

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| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
|                                |                             | 17-47     ...     17th through 47th week of gestation<br>99        ...     Unknown   |
| 185-186                        | 2                           | <u>GESTAT10</u><br><u>Gestation Recode 10</u><br><br>01        ...     Under 20 weeks<br>02        ...     20 - 27 weeks<br>03        ...     28 - 31 weeks<br>04        ...     32 - 35 weeks<br>05        ...     36 weeks<br>06        ...     37 - 39 weeks<br>07        ...     40 weeks<br>08        ...     41 weeks<br>09        ...     42 weeks and over<br>10        ...     Not stated |
| 187                            | 1                           | <u>GESTAT3</u><br><u>Gestation Recode 3</u><br><br>1        ...     Under 37 weeks<br>2        ...     37 weeks and over<br>3        ...     Not stated  |
| 188                            | 1                           | <u>CSEXIMP</u><br><u>Sex Imputation Flag</u><br><br>Blank     ...     Sex is not imputed<br>1        ...     Sex is imputed  |
| 189                            | 1                           | <u>CSEX</u><br><u>Sex</u><br><br>1        ...     Male<br>2        ...     Female  |
| 190-192                        | 3                           | <u>RD</u><br><u>Reserved Positions</u>   |
| 193-196                        | 4                           | <u>DBIRWT</u><br><u>Birthweight - Detail in Grams</u><br><br>0227-8165 ...     Number of grams<br>9999        ...     Not stated birthweight   |
| 197-198                        | 2                           | <u>BIRWT12</u><br><u>Birthweight Recode 12</u>   |

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| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>  |
|--------------------------------|-----------------------------|---|
|                                |                             | 01        ...    499 grams or less<br>02        ...    500 - 999 grams<br>03        ...    1000 - 1499 grams<br>04        ...    1500 - 1999 grams<br>05        ...    2000 - 2499 grams<br>06        ...    2500 - 2999 grams<br>07        ...    3000 - 3499 grams<br>08        ...    3500 - 3999 grams<br>09        ...    4000 - 4499 grams<br>10        ...    4500 - 4999 grams<br>11        ...    5000 - 8165 grams<br>12        ...    Not stated |
| 199                            | 1                           | <u>BIRWT4</u><br><u>Birthweight Recode 4</u><br>1        ...    1499 grams or less<br>2        ...    1500 - 2499 grams<br>3        ...    2500 - grams or more<br>4        ...    Unknown or not stated  |
| 200                            | 1                           | <u>PLURIMP</u><br><u>Plurality Imputation Flag</u><br>Blank    ...    Plurality is not imputed<br>1        ...    Plurality is imputed  |
| 201                            | 1                           | <u>DPLURAL</u><br><u>Plurality</u><br>1        ...    Single<br>2        ...    Twin<br>3        ...    Triplet<br>4        ...    Quadruplet<br>5        ...    Quintuplet or higher   |
| 202-204                        | 3                           | <u>R6</u><br><u>Reserved positions</u>  |
| 205-206                        | 2                           | <u>FMAPS</u><br><u>Five Minute Apgar Score</u><br>Apgar Score is not reported by all areas. See reporting flags.<br>00-10    ...    A score of 0-10<br>99        ...    Unknown or not stated   |
| 207                            | 1                           | <u>FMAPSR</u><br><u>Five Minute Apgar Score Recode</u><br>Apgar Score is not reported by all areas. See reporting flags.<br>1        ...    A score of 0-3  |

2001  
Detail Natality Record

| <u>Tape Location</u> | <u>Field Size</u> | <u>Item and Code Outline</u>  |
|----------------------|-------------------|---|
|                      |                   | 2           ...   A score of 4-6<br>3           ...   A score of 7-8<br>4           ...   A score of 9-10<br>5           ...   Not stated   |
| 208-209              | 2                 | <u>CLINGEST</u><br><u>Clinical Estimate of Gestation</u><br><br>Clinical estimate is not reported by all areas. See reporting flags.<br><br>17-47       ...   Estimated gestation in weeks<br>99          ...   Unknown or not stated   |
| 210-216              |                   | 7 <u>R4</u><br><u>Reserved Positions</u>  |
| 217-306              | 90                | <u>MEDINFO</u><br><u>Medical and Health Data</u><br><br>Some States do not report an entire item while other States do not report all of the categories within an item.<br><br>If an item is not reported, it is indicated by code zero in the appropriate reporting flag.<br><br>If a category within an item is not reported it is indicated by code 8 in the position for that category. |
| 217-222              | 6                 | <u>DELMETH</u><br><u>Method of Delivery</u><br><br>Each method is assigned a separate position, and the code structure for each method (position) is:<br><br>1           ...   The method was used<br>2           ...   The method was not used<br>8           ...   Method not on certificate<br>9           ...   Method unknown or not stated  |
| 217                  | 1                 | <u>VAGINAL</u><br><u>Vaginal</u>  |
| 218                  | 1                 | <u>VBAC</u><br><u>Vaginal birth after previous C-section</u>  |
| 219                  | 1                 | <u>PRIMAC</u><br><u>Primary C -section</u>  |
| 220                  | 1                 | <u>REPEAC</u><br><u>Repeat C -section</u>   |

2001  
Detail Natality Record

| <u>Tape Location</u> | <u>Field Size</u> | <u>Item and Code Outline</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
|----------------------|-------------------|---|---|-----|---|---|-----|--|---|-----|---------------------------|---|-----|-------------------------|---|-----|------------|
| 221                  | 1                 | <u>FORCEP</u><br><u>Forceps</u>   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 222                  | 1                 | <u>VACUUM</u><br><u>Vacuum</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 223                  | 1                 | <u>R5</u><br><u>Reserved Position</u>   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 224                  | 1                 | <u>DELMETH5</u><br><u>Method of Delivery Recode</u><br><br><table> <tr> <td>1</td><td>...</td><td>Vaginal (excludes vaginal after previous C-section)</td></tr> <tr> <td>2</td><td>...</td><td>Vaginal birth after previous C-section</td></tr> <tr> <td>3</td><td>...</td><td>Primary C -section</td></tr> <tr> <td>4</td><td>...</td><td>Repeat C -section</td></tr> <tr> <td>5</td><td>...</td><td>Not stated</td></tr> </table>                 | 1 | ... | Vaginal (excludes vaginal after previous C-section) | 2 | ... | Vaginal birth after previous C-section | 3 | ... | Primary C -section        | 4 | ... | Repeat C -section       | 5 | ... | Not stated |
| 1                    | ...               | Vaginal (excludes vaginal after previous C-section)   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 2                    | ...               | Vaginal birth after previous C-section  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 3                    | ...               | Primary C -section  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 4                    | ...               | Repeat C -section   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 5                    | ...               | Not stated  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 225-241              | 17                | <u>MEDRISK</u><br><u>Medical Risk Factors</u><br><br><p>Each risk factor is assigned a separate position, and the code structure for each risk factor (position) is:</p> <table> <tr> <td>1</td><td>...</td><td>Factor reported</td></tr> <tr> <td>2</td><td>...</td><td>Factor not reported</td></tr> <tr> <td>8</td><td>...</td><td>Factor not on certificate</td></tr> <tr> <td>9</td><td>...</td><td>Factor not classifiable</td></tr> </table> | 1 | ... | Factor reported                                     | 2 | ... | Factor not reported                    | 8 | ... | Factor not on certificate | 9 | ... | Factor not classifiable |   |     |            |
| 1                    | ...               | Factor reported   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 2                    | ...               | Factor not reported   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 8                    | ...               | Factor not on certificate   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 9                    | ...               | Factor not classifiable   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 225                  | 1                 | <u>ANEMIA</u><br><u>Anemia (Hct.&lt;30/Hgb.&lt;10)</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 226                  | 1                 | <u>CARDIAC</u><br><u>Cardiac disease</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 227                  | 1                 | <u>LUNG</u><br><u>Acute or chronic lung disease</u>   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 228                  | 1                 | <u>DIABETES</u><br><u>Diabetes</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 229                  | 1                 | <u>HERPES</u><br><u>Genital herpes</u>  |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |
| 230                  | 1                 | <u>HYDRA</u><br><u>Hydramnios/Oligohydramnios</u>   |   |     |   |   |     |  |   |     |                           |   |     |                         |   |     |            |

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| <u>Tape Location</u> | <u>Field Size</u> | <u>Item and Code Outline</u>  |
|----------------------|-------------------|---|
| 231                  | 1                 | <u>HEMO</u><br><u>Hemoglobinopathy</u>  |
| 232                  | 1                 | <u>CHYPER</u><br><u>Hypertension, chronic</u>                                 |
| 233                  | 1                 | <u>PHYPER</u><br><u>Hypertension, pregnancy-associated</u>                    |
| 234                  | 1                 | <u>ECLAMP</u><br><u>Eclampsia</u>   |
| 235                  | 1                 | <u>INCERVIX</u><br><u>Incompetent cervix</u>                                  |
| 236                  | 1                 | <u>PRE4000</u><br><u>Previous infant 4000+ grams</u>                          |
| 237                  | 1                 | <u>PRETERM</u><br><u>Previous preterm or small-for-gestational-age infant</u> |
| 238                  | 1                 | <u>RENAL</u><br><u>Renal disease</u>  |
| 239                  | 1                 | <u>RH</u><br><u>Rh sensitization</u>  |
| 240                  | 1                 | <u>UTERINE</u><br><u>Uterine bleeding</u>                                     |
| 241                  | 1                 | <u>OTHERMR</u><br><u>Other Medical Risk Factors</u>                           |
| 242-252              | 11                | <u>OTHERRSK</u><br><u>Other Risk Factors for this Pregnancy</u>               |
| 242-245              | 4                 | <u>TOBACRSK</u><br><u>Tobacco Risks</u>                                       |
| 242                  | 1                 | <u>TOBACCO</u><br><u>Tobacco Use During Pregnancy</u>                         |
|                      |                   | 1           ...    Yes  |
|                      |                   | 2           ...    No   |
|                      |                   | 9           ...    Unknown or not stated                                      |
| 243-244              | 2                 | <u>CIGAR</u><br><u>Average Number of Cigarettes Per Day</u>                   |
|                      |                   | 00-97       ...    As stated  |
|                      |                   | 98          ...    98 or more cigarettes per day                              |
|                      |                   | 99          ...    Unknown or not stated                                      |
| 245                  | 1                 | <u>CIGAR6</u><br><u>Average Number of Cigarettes Per Day Recode</u>           |

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| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
|                                |                             | 0        ...    Nonsmoker<br>1        ...    1 - 5 cigarettes per day<br>2        ...    6 - 10 cigarettes per day<br>3        ...    11 - 20 cigarettes per day<br>4        ...    21 - 40 cigarettes per day<br>5        ...    41 or more cigarettes per day<br>6        ...    Unknown or not stated |
| 246-249                        | 4                           | <u>ALCOHRSK</u><br><u>Alcohol</u>  |
| 246                            | 1                           | <u>ALCOHOL</u><br><u>Alcohol Use During Pregnancy</u>  |
|                                |                             | 1        ...    Yes<br>2        ...    No<br>9        ...    Unknown or not stated   |
| 247-248                        | 2                           | <u>DRINK</u><br><u>Average Number of Drinks Per Week</u>   |
|                                |                             | 00-97    ...    As stated<br>98        ...    98 or more drinks per week<br>99        ...    Unknown or not stated   |
| 249                            | 1                           | <u>DRINK5</u><br><u>Average Number of Drinks Per Week Recode</u>   |
|                                |                             | 0        ...    Non drinker<br>1        ...    1 drink per week<br>2        ...    2 drinks per week<br>3        ...    3 - 4 drinks per week<br>4        ...    5 or more drinks per week<br>5        ...    Unknown or not stated  |
| 250-252                        | 3                           | <u>WTGANRSK</u><br><u>Weight Gain During Pregnancy</u>   |
| 250-251                        | 2                           | <u>WTGAIN</u><br><u>Weight Gain</u>  |
|                                |                             | 00-97    ...    Stated number of pounds<br>98        ...    98 pounds or more<br>99        ...    Unknown or not stated  |
| 252                            | 1                           | <u>WTGAIN9</u>   |

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Tape  
Location

Field  
Size

Item and Code Outline

Weight Gain Recode

|   |     |                       |
|---|-----|-----------------------|
| 1 | ... | Less than 16 pounds   |
| 2 | ... | 16 - 20 pounds        |
| 3 | ... | 21 - 25 pounds        |
| 4 | ... | 26 - 30 pounds        |
| 5 | ... | 31 - 35 pounds        |
| 6 | ... | 36 - 40 pounds        |
| 7 | ... | 41 - 45 pounds        |
| 8 | ... | 46 or more pounds     |
| 9 | ... | Unknown or not stated |

253-259

7

OBSTETRC  
Obstetric Procedures

Each procedure is assigned a separate position, and the code structure for each procedure (position) is:

|   |     |                              |
|---|-----|------------------------------|
| 1 | ... | Procedure reported           |
| 2 | ... | Procedure not reported       |
| 8 | ... | Procedure not on certificate |
| 9 | ... | Procedure not classifiable   |

253

1

AMNIO  
Amniocentesis

254

1

MONITOR  
Electronic fetal monitoring

255

1

INDUCT  
Induction of labor

256

1

STIMULA  
Stimulation of labor

257

1

TOCOL  
Tocolysis

258

1

ULTRAS  
Ultrasound

259

1

OTHEROB  
Other Obstetric Procedures

260-275

16

LABOR  
Complications of Labor and/or Delivery

Each complication is assigned a separate position,

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| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
|                                |                             | and the code structure for each complication<br>(position) is:         |
|                                |                             | 1           ...    Complication reported                               |
|                                |                             | 2           ...    Complication not reported                           |
|                                |                             | 8           ...    Complication not on certificate                     |
|                                |                             | 9           ...    Complication not classifiable                       |
| 260                            | 1                           | <u>FEBRILE</u><br><u>Febrile (&gt;100 degrees F. or 38 degrees C.)</u> |
| 261                            | 1                           | <u>MECONIUM</u><br><u>Meconium, moderate/heavy</u>                     |
| 262                            | 1                           | <u>RUPTURE</u><br><u>Premature rupture of membrane (&gt;12 hours)</u>  |
| 263                            | 1                           | <u>ABRUPTIO</u><br><u>Abruptio placenta</u>                            |
| 264                            | 1                           | <u>PREPLACE</u><br><u>Placenta previa</u>                              |
| 265                            | 1                           | <u>EXCEBLD</u><br><u>Other excessive bleeding</u>                      |
| 266                            | 1                           | <u>SEIZURE</u><br><u>Seizures during labor</u>                         |
| 267                            | 1                           | <u>PRECIP</u><br><u>Precipitous labor (&lt;3 hours)</u>                |
| 268                            | 1                           | <u>PROLONG</u><br><u>Prolonged labor (&gt;20 hours)</u>                |
| 269                            | 1                           | <u>DYSFUNC</u><br><u>Dysfunctional labor</u>                           |
| 270                            | 1                           | <u>BREECH</u><br><u>Breech/Malpresentation</u>                         |
| 271                            | 1                           | <u>CEPHALO</u><br><u>Cephalopelvic disproportion</u>                   |
| 272                            | 1                           | <u>CORD</u><br><u>Cord prolapse</u>                                    |
| 273                            | 1                           | <u>ANESTHE</u><br><u>Anesthetic complications</u>                      |
| 274                            | 1                           | <u>DISTRESS</u><br><u>Fetal distress</u>                               |
| 275                            | 1                           | <u>OTHERLB</u><br><u>Other Complication of Labor and/or Delivery</u>   |

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| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
|--------------------------------|-----------------------------|--|---|-----|--------------------|---|-----|------------------------|---|-----|------------------------------|---|-----|----------------------------|
| 276-284                        | 9                           | <p><u>NEWBORN</u><br/><u>Abnormal Conditions of the Newborn</u></p> <p>Each condition is assigned a separate position, and the code structure for each condition (position) is:</p> <table> <tr> <td>1</td><td>...</td><td>Condition reported</td></tr> <tr> <td>2</td><td>...</td><td>Condition not reported</td></tr> <tr> <td>8</td><td>...</td><td>Condition not on certificate</td></tr> <tr> <td>9</td><td>...</td><td>Condition not classifiable</td></tr> </table> | 1 | ... | Condition reported | 2 | ... | Condition not reported | 8 | ... | Condition not on certificate | 9 | ... | Condition not classifiable |
| 1                              | ...                         | Condition reported   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 2                              | ...                         | Condition not reported   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 8                              | ...                         | Condition not on certificate   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 9                              | ...                         | Condition not classifiable   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 276                            | 1                           | <p><u>NANEMIA</u><br/><u>Anemia (Hct.&lt;39/Hgb.&lt;13)</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 277                            | 1                           | <p><u>INJURY</u><br/><u>Birth injury</u></p>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 278                            | 1                           | <p><u>ALCOSYN</u><br/><u>Fetal alcohol syndrome</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 279                            | 1                           | <p><u>HYALINE</u><br/><u>Hyaline membrane disease</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 280                            | 1                           | <p><u>MECONSYN</u><br/><u>Meconium aspiration syndrome</u></p>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 281                            | 1                           | <p><u>VENL30</u><br/><u>Assisted ventilation, less than 30 minutes</u></p>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 282                            | 1                           | <p><u>VEN30M</u><br/><u>Assisted ventilation, 30 minutes or more</u></p>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 283                            | 1                           | <p><u>NSEIZ</u><br/><u>Seizures</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 284                            | 1                           | <p><u>OTHERAB</u><br/><u>Other Abnormal Conditions of the Newborn</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 285-306                        | 22                          | <p><u>CONGENIT</u><br/><u>Congenital Anomalies</u></p> <p>Each anomaly is assigned a separate position, and the code structure for each anomaly (position) is:</p> <table> <tr> <td>1</td><td>...</td><td>Anomaly reported</td></tr> <tr> <td>2</td><td>...</td><td>Anomaly not reported</td></tr> <tr> <td>8</td><td>...</td><td>Anomaly not on certificate</td></tr> <tr> <td>9</td><td>...</td><td>Anomaly not classifiable</td></tr> </table>                          | 1 | ... | Anomaly reported   | 2 | ... | Anomaly not reported   | 8 | ... | Anomaly not on certificate   | 9 | ... | Anomaly not classifiable   |
| 1                              | ...                         | Anomaly reported   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 2                              | ...                         | Anomaly not reported   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 8                              | ...                         | Anomaly not on certificate   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 9                              | ...                         | Anomaly not classifiable   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 285                            | 1                           | <p><u>ANEN</u><br/><u>Anencephalus</u></p>   |   |     |                    |   |     |                        |   |     |                              |   |     |                            |
| 286                            | 1                           | <p><u>SPINA</u><br/><u>Spina bifida/Meningocele</u></p>  |   |     |                    |   |     |                        |   |     |                              |   |     |                            |

2001  
Detail Natality Record

| <u>Tape</u><br><u>Location</u> | <u>Field</u><br><u>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------------|-----------------------------|--|
| 287                            | 1                           | <u>HYDRO</u><br><u>Hydrocephalus</u>                                     |
| 288                            | 1                           | <u>MICROCE</u><br><u>Microcephalus</u>                                   |
| 289                            | 1                           | <u>NERVOUS</u><br><u>Other central nervous system anomalies</u>          |
| 290                            | 1                           | <u>HEART</u><br><u>Heart malformations</u>                               |
| 291                            | 1                           | <u>CIRCUL</u><br><u>Other circulatory/respiratory anomalies</u>          |
| 292                            | 1                           | <u>RECTAL</u><br><u>Rectal atresia/stenosis</u>                          |
| 293                            | 1                           | <u>TRACHEO</u><br><u>Tracheo - esophageal fistula/Esophageal atresia</u> |
| 294                            | 1                           | <u>OMPHALO</u><br><u>Omphalocele/Gastroschisis</u>                       |
| 295                            | 1                           | <u>GASTRO</u><br><u>Other gastrointestinal anomalies</u>                 |
| 296                            | 1                           | <u>GENITAL</u><br><u>Malformed genitalia</u>                             |
| 297                            | 1                           | <u>RENALAGE</u><br><u>Renal agenesis</u>                                 |
| 298                            | 1                           | <u>UROGEN</u><br><u>Other urogenital anomalies</u>                       |
| 299                            | 1                           | <u>CLEFTLP</u><br><u>Cleft lip/palate</u>                                |
| 300                            | 1                           | <u>ADACTYLY</u><br><u>Polydactyly/Syndactyly/Adactyly</u>                |
| 301                            | 1                           | <u>CLUBFOOT</u><br><u>Club foot</u>                                      |
| 302                            | 1                           | <u>HERNIA</u><br><u>Diaphragmatic hernia</u>                             |
| 303                            | 1                           | <u>MUSCULO</u><br><u>Other musculoskeletal/integumental anomalies</u>    |
| 304                            | 1                           | <u>DOWNS</u><br><u>Down's syndrome</u>                                   |
| 305                            | 1                           | <u>CHROMO</u><br><u>Other chromosomal anomalies</u>                      |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------|-----------------------|--|
| 306                      | 1                     | <u>OTHERCON</u><br><u>Other Congenital Anomalies</u>   |
| 307-326                  | 20                    | <u>FLRES</u><br><u>Reporting Flags for Place of Residence</u><br><br>These positions contain flags to indicate whether or not the specified item is included on the birth certificate of the State of residence or of the MSA of residence. The code structure for each flag (position) is:<br><br>0           ...   The item is not reported<br>1           ...   The item is reported or partially reported. |
| 307                      | 1                     | <u>ORIGM</u><br><u>Origin of mother</u>  |
| 308                      | 1                     | <u>ORIGF</u><br><u>Origin of father</u>  |
| 309                      | 1                     | <u>EDUCM</u><br><u>Education of mother</u>   |
| 310                      | 1                     | <u>EDUCF</u><br><u>Education of father</u>   |
| 311                      | 1                     | <u>GESTE</u><br><u>Clinical estimate of gestation</u>  |
| 312                      | 1                     | <u>R6A</u><br><u>Reserved position</u>   |
| 313                      | 1                     | <u>FMAPSRF</u><br><u>5 - minute Apgar score</u>  |
| 314                      | 1                     | <u>DELMETRF</u><br><u>Method of delivery</u>   |
| 315                      | 1                     | <u>MEDRSK</u><br><br><u>Medical risk factors</u>   |
| 316                      | 1                     | <u>TOBUSE</u><br><u>Tobacco use</u>  |
| 317                      | 1                     | <u>ALCUSE</u><br><u>Alcohol use</u>  |
| 318                      | 1                     | <u>WTGN</u><br><u>Weight gain</u>  |
| 319                      | 1                     | <u>OBSTRC</u>  |

2001  
Detail Natality Record

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> | <u>Item and Code Outline</u>   |
|--------------------------|-----------------------|--|
|                          |                       | <u>Obstetric procedures</u>  |
| 320                      | 1                     | <u>CLABOR</u><br><u>Complications of labor and/or delivery</u>   |
| 321                      | 1                     | <u>ABNML</u><br><u>Abnormal conditions of newborn</u>  |
| 322                      | 1                     | <u>CONGAN</u><br><u>Congenital anomalies</u>   |
| 323                      | 1                     | <u>R6</u><br><u>Reserved Position</u>  |
| 324                      | 1                     | <u>EDUCMSA</u><br><u>Education of Mother (Based on MSA)</u>  |
| 325                      | 1                     | <u>APIFLAG</u><br><u>Race codes 18-68 reported (beginning with 1992 data)</u>  |
| 326-346                  | 21                    | <u>R7</u><br><u>Reserved positions</u>   |
| 347-349                  | 3                     | <u>SMSARES</u><br><u>PSMA/MSA of Residence (NCHS)</u>  |
|                          |                       | <p>Primary Metropolitan Statistical Areas and Metropolitan Statistical Areas are those defined by the U.S. Office of Management and Budget (OMB) as of June 30, 1990. For New England, the New England County Metropolitan Areas (NECMA's) are used.</p> <p>Further back in this document is a list of PMSA's, MSA's, NECMA's, and their component counties.</p> <p>000           ...   Nonmetropolitan counties<br/>001-320       ...   Code range<br/>999           ...   Area of less than 100,000 population<br/>ZZZ           ...   Foreign residents</p> |
| 350                      | 1                     | <u>POPSMAS</u><br><u>PMSA/MSA Population Size</u>  |
|                          |                       | <p>Based on 1990 Census county population counts</p> <p>1           ...   Area of 250,000 or more<br/>2           ...   Area of 100,000 to 250,000<br/>9           ...   Area of less than 100,000 or nonmetropolitan area<br/>Z           ...   Foreign resident</p>  |

## **Vital Statistics Geographic Code Outline for the United States**

The following pages show in detail the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in the United States. When an event occurs to a nonresident of the United States, residence data are coded only to the "State" level; several western hemisphere countries or the remainder of the world are uniquely identified. Along with the Division of Vital Statistics codes the Federal Information Processing Standards (FIPS) codes are shown for several items. Both sets of codes appear on the vital event public-use files. The Metropolitan Statistical Area codes are effective with the 1996 data year and are based on the 1990 Census.

To aid the user in interpreting the geographic codes, a brief explanation of the codes and of the column headings/abbreviations shown on the following pages are:

**State (St):** Each State and the District of Columbia are numbered alphabetically. In addition, several unique codes are used to identify nonresidents of the U.S.

**County (Cnty):** Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State.

**P/MSA:** Primary metropolitan statistical areas and metropolitan statistical areas are those established by the U.S. Office of Management and Budget (OMB) using 1990 Census population counts. For New England, the New England County Metropolitan Areas (NECMA) are used.

**M/NM:** Metropolitan counties (code 1) are component counties of P/MSA's. Nonmetropolitan counties (code 2) are not part of any P/MSA.

**City or place:** Cities/places are numbered alphabetically within each State and identify each city with a population of 10,000 or more in 1990.

**P/S:** Population size code for city of residence based on the 1990 Census. Refer to the code outline given earlier in this document for specific codes and meanings.

**Name:** Each State, county, and city name is listed along with its respective code. In addition, places used to identify nonresidents of the U.S. are also listed along with their codes.

**FIPS:** For an explanation of FIPS codes, reference should be made to various National Institute of Standards & Technology (NITS) publications.

**So! How do I find Yavapai county, Arizona; or Tupelo city, Mississippi?**

Since counties and cities/places are numbered within State, the State and county or the State and city/places codes must be used to select these areas. It is most helpful if the county is known when looking for a particular city since areas are shown by State, county, and city.

**Yavapai county, Arizona - State and county codes NCHS: 03 014; FIPS: 04 025.**

**Tupelo, Mississippi - State and city/place codes NCHS: 25 032; FIPS: 28 74840; or State, county, city/place codes NCHS: 25 041 032; FIPS: 28 081 74840.**

List of Primary Metropolitan Statistical Areas  
and their Component Counties  
For the United States and Puerto Rico

Primary and Metropolitan Statistical Areas Established in 1990 Page 2  
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 United States  
 Puerto Rico

| Vital Statistics Codes |       |  | P/MSA Name and County Components   | FIPS Codes |       |  |
|------------------------|-------|--|--|------------|-------|--|
| P/MSA                  | State | County                                 |  | P/MSA      | State | Cnty                                   |
| 001                    | 44    | 221                                    | Abilene, TX, MSA<br>Texas<br>Taylor  | 0040       | 48    | 441                                    |
| 002                    | 36    | 067<br>077                             | Akron, OH, PMSA<br>Ohio<br>Portage<br>Summit   | 0080       | 39    | 133<br>153                             |
| 003                    | 11    | 047<br>088                             | Albany, GA, MSA<br>Georgia<br>Dougherty<br>Lee   | 0120       | 13    | 095<br>177                             |
| 004                    | 33    | 001<br>027<br>039<br>042<br>043<br>044 | Albany-Schenectady-Troy, NY, MSA<br>New York<br>Albany<br>Montgomery<br>Rensselaer<br>Saratoga<br>Schenectady<br>Schoharie | 0160       | 36    | 001<br>057<br>083<br>091<br>093<br>095 |
| 005                    | 32    | 001<br>024<br>033                      | Albuquerque, NM, MSA<br>New Mexico<br>Bernalillo<br>Sandoval<br>Valencia   | 0200       | 35    | 001<br>043<br>061                      |
| 006                    | 19    | 040                                    | Alexandria, LA, MSA<br>Louisiana<br>Rapides  | 0220       | 22    | 079                                    |
| 007                    | 39    | 013<br>039<br>048                      | Allentown-Bethlehem-Easton, PA, MSA<br>Pennsylvania<br>Carbon<br>Lehigh<br>Northampton                                     | 0240       | 42    | 025<br>077<br>095                      |
| 008                    | 39    | 007                                    | Altoona, PA, MSA<br>Pennsylvania<br>Blair  | 0280       | 42    | 013                                    |
| 009                    | 44    | 188<br>191                             | Amarillo, TX, MSA<br>Texas<br>Potter<br>Randall  | 0320       | 48    | 375<br>381                             |
| 010                    | 02    | 003                                    | Anchorage, AK, MSA<br>Alaska<br>Anchorage  | 0380       | 02    | 020                                    |
| 011                    | 23    | 046<br>047<br>081                      | Ann Arbor, MI, PMSA<br>Michigan<br>Lenawee<br>Livingston<br>Washtenaw  | 0440       | 26    | 091<br>093<br>161                      |
| 012                    | 01    | 008                                    | Anniston, AL, MSA<br>Alabama<br>Calhoun  | 0450       | 01    | 015                                    |
| 013                    | 50    | 008<br>045<br>071                      | Appleton-Oshkosh-Neenah, WI, MSA<br>Wisconsin<br>Calumet<br>Outagamie<br>Winnebago   | 0460       | 55    | 015<br>087<br>139                      |
| 014                    | 34    | 011<br>058                             | Asheville, NC, MSA<br>North Carolina<br>Buncombe<br>Madison  | 0480       | 37    | 021<br>115                             |

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| Vital Statistics Codes |       |        | P/MSA Name and County Components | FIPS Codes |       |      |
|------------------------|-------|--------|----------------------------------|------------|-------|------|
| P/MSA                  | State | County |                                  | P/MSA      | State | Cnty |
| 015                    | 11    |        | Athens, GA, MSA                  | 0500       | 13    |      |
|                        |       | 029    | Georgia                          |            |       |      |
|                        |       | 097    | Clarke                           |            |       | 059  |
|                        |       | 108    | Madison                          |            |       | 195  |
|                        |       |        | Oconee                           |            |       | 219  |
| 016                    | 11    |        | Atlanta, GA, MSA                 | 0520       | 13    |      |
|                        |       | 007    | Georgia                          |            |       |      |
|                        |       | 008    | Barrow                           |            |       | 013  |
|                        |       | 022    | Bartow                           |            |       | 015  |
|                        |       | 028    | Carroll                          |            |       | 045  |
|                        |       | 031    | Cherokee                         |            |       | 057  |
|                        |       | 033    | Clayton                          |            |       | 063  |
|                        |       | 038    | Cobb                             |            |       | 067  |
|                        |       | 044    | Coweta                           |            |       | 077  |
|                        |       | 048    | De Kalb                          |            |       | 089  |
|                        |       | 056    | Douglas                          |            |       | 097  |
|                        |       | 058    | Fayette                          |            |       | 113  |
|                        |       | 060    | Forsyth                          |            |       | 117  |
|                        |       | 067    | Fulton                           |            |       | 121  |
|                        |       | 075    | Gwinnett                         |            |       | 135  |
|                        |       | 107    | Henry                            |            |       | 151  |
|                        |       | 110    | Newton                           |            |       | 217  |
|                        |       | 112    | Paulding                         |            |       | 223  |
|                        |       | 122    | Pickens                          |            |       | 227  |
|                        |       | 126    | Rockdale                         |            |       | 247  |
|                        |       | 147    | Spalding                         |            |       | 255  |
|                        |       |        | Walton                           |            |       | 297  |
| 017                    | 31    |        | Atlantic-Cape May, NJ, PMSA      | 0560       | 34    |      |
|                        |       | 001    | New Jersey                       |            |       |      |
|                        |       | 005    | Atlantic                         |            |       | 001  |
|                        |       |        | Cape May                         |            |       | 009  |
| 018                    | 11    |        | Augusta-Aiken, GA-SC, MSA        | 0600       | 13    |      |
|                        |       | 036    | Georgia                          |            |       |      |
|                        |       | 094    | Columbia                         |            |       | 073  |
|                        |       | 121    | McDuffie                         |            |       | 189  |
|                        |       |        | Richmond                         |            |       | 245  |
|                        | 41    |        | South Carolina                   |            | 45    |      |
|                        |       | 002    | Aiken                            |            |       | 003  |
|                        |       | 019    | Edgefield                        |            |       | 037  |
| 019                    | 44    |        | Austin-San Marcos, TX, MSA       | 0640       | 48    |      |
|                        |       | 011    | Texas                            |            |       |      |
|                        |       | 028    | Bastrop                          |            |       | 021  |
|                        |       | 105    | Caldwell                         |            |       | 055  |
|                        |       | 227    | Hays                             |            |       | 209  |
|                        |       | 246    | Travis                           |            |       | 453  |
|                        |       |        | Williamson                       |            |       | 491  |
| 020                    | 05    |        | Bakersfield, CA, MSA             | 0680       | 06    |      |
|                        |       | 015    | California                       |            |       |      |
|                        |       |        | Kern                             |            |       | 029  |
| 021                    | 21    |        | Baltimore, MD, PMSA              | 0720       | 24    |      |
|                        |       | 002    | Maryland                         |            |       |      |
|                        |       | 003    | Anne Arundel                     |            |       | 003  |
|                        |       | 004    | Baltimore                        |            |       | 005  |
|                        |       | 007    | Baltimore city                   |            |       | 510  |
|                        |       | 013    | Carroll                          |            |       | 013  |
|                        |       | 014    | Harford                          |            |       | 025  |
|                        |       | 018    | Howard                           |            |       | 027  |
|                        |       |        | Queen Anne's                     |            |       | 035  |
| 022                    | 20    |        | Bangor, ME, NECMA                | 0733       | 23    |      |
|                        |       | 010    | Maine                            |            |       |      |
|                        |       |        | Penobscot                        |            |       | 019  |
| 023                    | 22    |        | Barnstable-Yarmouth, MA, NECMA   | 0743       | 25    |      |
|                        |       | 001    | Massachusetts                    |            |       |      |
|                        |       |        | Barnstable                       |            |       | 001  |

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| Vital Statistics Codes |       |        |                                     |  | FIPS Codes |       |      |
|------------------------|-------|--------|-------------------------------------|--|------------|-------|------|
| P/MSA                  | State | County | P/MSA Name and County Components    |  | P/MSA      | State | Cnty |
| 024                    | 19    |        | Baton Rouge, LA, MSA                |  | 0760       | 22    |      |
|                        |       | 003    | Louisiana                           |  |            |       | 005  |
|                        |       | 017    | Ascension                           |  |            |       | 033  |
|                        |       | 032    | East Baton Rouge                    |  |            |       | 063  |
|                        |       | 061    | Livingston                          |  |            |       | 121  |
|                        |       |        | West Baton Rouge                    |  |            |       |      |
| 025                    | 44    |        | Beaumont-Port Arthur, TX, MSA       |  | 0840       | 48    |      |
|                        |       | 100    | Texas                               |  |            |       | 199  |
|                        |       | 123    | Hardin                              |  |            |       | 245  |
|                        |       | 181    | Jefferson                           |  |            |       | 361  |
|                        |       |        | Orange                              |  |            |       |      |
| 026                    | 48    |        | Bellingham, WA, MSA                 |  | 0860       | 53    |      |
|                        |       | 037    | Washington                          |  |            |       | 073  |
|                        |       |        | Whatcom                             |  |            |       |      |
| 027                    | 23    |        | Benton Harbor, MI, MSA              |  | 0870       | 26    |      |
|                        |       | 011    | Michigan                            |  |            |       | 021  |
|                        |       |        | Berrien                             |  |            |       |      |
| 028                    | 31    |        | Bergen-Passaic, NJ, PMSA            |  | 0875       | 34    |      |
|                        |       | 002    | New Jersey                          |  |            |       | 003  |
|                        |       | 016    | Bergen                              |  |            |       | 031  |
|                        |       |        | Passaic                             |  |            |       |      |
| 029                    | 27    |        | Billings, MT, MSA                   |  | 0880       | 30    |      |
|                        |       | 056    | Montana                             |  |            |       | 111  |
|                        |       |        | Yellowstone                         |  |            |       |      |
| 030                    | 25    |        | Biloxi-Gulfport-Pascagoula, MS, MSA |  | 0920       | 28    |      |
|                        |       | 023    | Mississippi                         |  |            |       | 045  |
|                        |       | 024    | Hancock                             |  |            |       | 047  |
|                        |       | 030    | Harrison                            |  |            |       | 059  |
|                        |       |        | Jackson                             |  |            |       |      |
| 031                    | 33    |        | Binghamton, NY, MSA                 |  | 0960       | 36    |      |
|                        |       | 003    | New York                            |  |            |       | 007  |
|                        |       | 050    | Broome                              |  |            |       | 107  |
|                        |       |        | Tioga                               |  |            |       |      |
| 032                    | 01    |        | Birmingham, AL, MSA                 |  | 1000       | 01    |      |
|                        |       | 005    | Alabama                             |  |            |       | 009  |
|                        |       | 037    | Blount                              |  |            |       | 073  |
|                        |       | 058    | Jefferson                           |  |            |       | 115  |
|                        |       | 059    | St. Clair                           |  |            |       | 117  |
|                        |       |        | Shelby                              |  |            |       |      |
| 033                    | 35    |        | Bismarck, ND, MSA                   |  | 1010       | 38    |      |
|                        |       | 008    | North Dakota                        |  |            |       | 015  |
|                        |       | 030    | Burleigh                            |  |            |       | 059  |
|                        |       |        | Morton                              |  |            |       |      |
| 034                    | 15    |        | Bloomington, IN, MSA                |  | 1020       | 18    |      |
|                        |       | 053    | Indiana                             |  |            |       | 105  |
|                        |       |        | Monroe                              |  |            |       |      |
| 035                    | 14    |        | Bloomington-Normal, IL, MSA         |  | 1040       | 17    |      |
|                        |       | 057    | Illinois                            |  |            |       | 113  |
|                        |       |        | McLean                              |  |            |       |      |
| 036                    | 13    |        | Boise City, ID, MSA                 |  | 1080       | 16    |      |
|                        |       | 001    | Idaho                               |  |            |       | 001  |
|                        |       | 014    | Ada                                 |  |            |       | 027  |
|                        |       |        | Canyon                              |  |            |       |      |

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| Vital Statistics Codes |       |        | P/MSA Name and County Components                 | FIPS Codes |       |      |
|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 037                    | 22    |        | Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH | 1123       | 25    |      |
|                        |       | 003    | Massachusetts                                    |            |       |      |
|                        |       | 005    | Bristol  |            |       | 005  |
|                        |       | 009    | Essex  |            |       | 009  |
|                        |       | 011    | Middlesex  |            |       | 017  |
|                        |       | 012    | Norfolk  |            |       | 021  |
|                        |       | 013    | Plymouth   |            |       | 023  |
|                        |       | 014    | Suffolk  |            |       | 025  |
|                        |       |        | Worcester  |            |       | 027  |
|                        | 30    |        | New Hampshire                                    |            | 33    |      |
|                        |       | 006    | Hillsborough                                     |            |       | 011  |
|                        |       | 008    | Rockingham                                       |            |       | 015  |
|                        |       | 009    | Strafford  |            |       | 017  |
| 038                    | 06    |        | Boulder-Longmont, CO, PMSA                       | 1125       |       |      |
|                        |       | 007    | Colorado   |            | 08    |      |
|                        |       |        | Boulder  |            |       | 013  |
| 039                    | 44    |        | Brazoria, TX, PMSA                               | 1145       |       |      |
|                        |       | 020    | Texas  |            | 48    |      |
|                        |       |        | Brazoria   |            |       | 039  |
| 040                    | 48    |        | Bremerton, WA, PMSA                              | 1150       |       |      |
|                        |       | 018    | Washington                                       |            | 53    |      |
|                        |       |        | Kitsap   |            |       | 035  |
| 041                    | 44    |        | Brownsville-Harlingen-San Benito, TX, MSA        | 1240       |       |      |
|                        |       | 031    | Texas  |            | 48    |      |
|                        |       |        | Cameron  |            |       | 061  |
| 042                    | 44    |        | Bryan-College Station, TX, MSA                   | 1260       |       |      |
|                        |       | 021    | Texas  |            | 48    |      |
|                        |       |        | Brazos   |            |       | 041  |
| 043                    | 33    |        | Buffalo-Niagara Falls, NY, MSA                   | 1280       |       |      |
|                        |       | 014    | New York   |            | 36    |      |
|                        |       | 030    | Erie   |            |       | 029  |
|                        |       |        | Niagara  |            |       | 063  |
| 044                    | 46    |        | Burlington, VT, NECMA                            | 1303       |       |      |
|                        |       | 004    | Vermont  |            | 50    |      |
|                        |       | 006    | Chittenden                                       |            |       | 007  |
|                        |       | 007    | Franklin   |            |       | 011  |
|                        |       |        | Grand Isle                                       |            |       | 013  |
| 045                    | 36    |        | Canton-Massillon, OH, MSA                        | 1320       |       |      |
|                        |       | 010    | Ohio   |            | 39    |      |
|                        |       | 076    | Carroll  |            |       | 019  |
|                        |       |        | Stark  |            |       | 151  |
| 046                    | 51    |        | Casper, WY, MSA                                  | 1350       |       |      |
|                        |       | 013    | Wyoming  |            | 56    |      |
|                        |       |        | Natrona  |            |       | 025  |
| 047                    | 16    |        | Cedar Rapids, IA, MSA                            | 1360       |       |      |
|                        |       | 057    | Iowa   |            | 19    |      |
|                        |       |        | Linn   |            |       | 113  |
| 048                    | 14    |        | Champaign-Urbana, IL, MSA                        | 1400       |       |      |
|                        |       | 010    | Illinois   |            | 17    |      |
|                        |       |        | Champaign  |            |       | 019  |
| 049                    | 41    |        | Charleston-North Charleston, SC, MSA             | 1440       |       |      |
|                        |       | 008    | South Carolina                                   |            | 45    |      |
|                        |       | 010    | Berkeley   |            |       | 015  |
|                        |       | 018    | Charleston                                       |            |       | 019  |
|                        |       |        | Dorchester                                       |            |       | 035  |
| 050                    | 49    |        | Charleston, WV, MSA                              | 1480       |       |      |
|                        |       | 020    | West Virginia                                    |            | 54    |      |
|                        |       | 040    | Kanawha  |            |       | 039  |
|                        |       |        | Putnam   |            |       | 079  |

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|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 051                    | 34    |        | Charlotte-Gastonia-Rock Hill, NC-SC, MSA | 1520       | 37    |      |
|                        |       | 013    | North Carolina                           |            |       |      |
|                        |       | 036    | Cabarrus                                 |            |       | 025  |
|                        |       | 055    | Gaston                                   |            |       | 071  |
|                        |       | 060    | Lincoln                                  |            |       | 109  |
|                        |       | 080    | Mecklenburg                              |            |       | 119  |
|                        |       | 090    | Rowan                                    |            |       | 159  |
|                        |       |        | Union                                    |            |       | 179  |
|                        | 41    |        | South Carolina                           |            | 45    |      |
|                        |       | 046    | York                                     |            |       | 091  |
| 052                    | 47    |        | Charlottesville, VA, MSA                 | 1540       | 51    |      |
|                        |       | 002    | Virginia                                 |            |       |      |
|                        |       | 025    | Albemarle                                |            |       | 003  |
|                        |       | 045    | Charlottesville city                     |            |       | 540  |
|                        |       | 055    | Fluvanna                                 |            |       | 065  |
|                        |       |        | Greene                                   |            |       | 079  |
| 053                    | 11    |        | Chattanooga, TN-GA, MSA                  | 1560       | 13    |      |
|                        |       | 023    | Georgia                                  |            |       |      |
|                        |       | 041    | Catoosa                                  |            |       | 047  |
|                        |       | 146    | Dade                                     |            |       | 083  |
|                        |       |        | Walker                                   |            |       | 295  |
|                        | 43    |        | Tennessee                                |            | 47    |      |
|                        |       | 033    | Hamilton                                 |            |       | 065  |
|                        |       | 058    | Marion                                   |            |       | 115  |
| 054                    | 51    |        | Cheyenne, WY, MSA                        | 1580       | 56    |      |
|                        |       | 011    | Wyoming                                  |            |       |      |
|                        |       |        | Laramie                                  |            |       | 021  |
| 055                    | 14    |        | Chicago, IL, PMSA                        | 1600       | 17    |      |
|                        |       | 016    | Illinois                                 |            |       |      |
|                        |       | 019    | Cook                                     |            |       | 031  |
|                        |       | 022    | De Kalb                                  |            |       | 037  |
|                        |       | 032    | Du Page                                  |            |       | 043  |
|                        |       | 045    | Grundy                                   |            |       | 063  |
|                        |       | 047    | Kane                                     |            |       | 089  |
|                        |       | 049    | Kendall                                  |            |       | 093  |
|                        |       | 056    | Lake                                     |            |       | 097  |
|                        |       | 099    | McHenry                                  |            |       | 111  |
|                        |       |        | Will                                     |            |       | 197  |
| 056                    | 05    |        | Chico-Paradise, CA, MSA                  | 1620       | 06    |      |
|                        |       | 004    | California                               |            |       |      |
|                        |       |        | Butte                                    |            |       | 007  |
| 057                    | 15    |        | Cincinnati, OH-KY-IN, PMSA               | 1640       | 18    |      |
|                        |       | 015    | Indiana                                  |            |       |      |
|                        |       | 058    | Dearborn                                 |            |       | 029  |
|                        |       |        | Ohio                                     |            |       | 115  |
|                        | 18    |        | Kentucky                                 |            | 21    |      |
|                        |       | 008    | Boone                                    |            |       | 015  |
|                        |       | 019    | Campbell                                 |            |       | 037  |
|                        |       | 039    | Gallatin                                 |            |       | 077  |
|                        |       | 041    | Grant                                    |            |       | 081  |
|                        |       | 059    | Kenton                                   |            |       | 117  |
|                        |       | 096    | Pendleton                                |            |       | 191  |
|                        | 36    |        | Ohio                                     |            | 39    |      |
|                        |       | 008    | Brown                                    |            |       | 015  |
|                        |       | 013    | Clermont                                 |            |       | 025  |
|                        |       | 031    | Hamilton                                 |            |       | 061  |
|                        |       | 083    | Warren                                   |            |       | 165  |
| 058                    | 18    |        | Clarksville-Hopkinsville, TN-KY, MSA     | 1660       | 21    |      |
|                        |       | 024    | Kentucky                                 |            |       |      |
|                        |       |        | Christian                                |            |       | 047  |
|                        | 43    |        | Tennessee                                |            | 47    |      |
|                        |       | 063    | Montgomery                               |            |       | 125  |

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|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 059                    | 36    |        | Cleveland-Lorain-Elyria, OH, PMSA        | 1680       | 39    |      |
|                        |       | 004    | Ohio                                     |            |       |      |
|                        |       | 018    | Ashtabula                                |            |       | 007  |
|                        |       | 028    | Cuyahoga                                 |            |       | 035  |
|                        |       | 043    | Geauga                                   |            |       | 055  |
|                        |       | 047    | Lake                                     |            |       | 085  |
|                        |       | 052    | Lorain                                   |            |       | 093  |
|                        |       |        | Medina                                   |            |       | 103  |
| 060                    | 06    |        | Colorado Springs, CO, MSA                | 1720       | 08    |      |
|                        |       | 021    | Colorado                                 |            |       |      |
|                        |       |        | El Paso                                  |            |       | 041  |
| 061                    | 26    |        | Columbia, MO, MSA                        | 1740       | 29    |      |
|                        |       | 010    | Missouri                                 |            |       |      |
|                        |       |        | Boone                                    |            |       | 019  |
| 062                    | 41    |        | Columbia, SC, MSA                        | 1760       | 45    |      |
|                        |       | 032    | South Carolina                           |            |       |      |
|                        |       | 040    | Lexington                                |            |       | 063  |
|                        |       |        | Richland                                 |            |       | 079  |
| 063                    | 01    |        | Columbus, GA-AL, MSA                     | 1800       | 01    |      |
|                        |       | 057    | Alabama                                  |            |       |      |
|                        |       |        | Russell                                  |            |       | 113  |
|                        | 11    |        | Georgia                                  |            | 13    |      |
|                        |       | 026    | Chattahoochee                            |            |       | 053  |
|                        |       | 072    | Harris                                   |            |       | 145  |
|                        |       | 106    | Muscogee                                 |            |       | 215  |
| 064                    | 36    |        | Columbus, OH, MSA                        | 1840       | 39    |      |
|                        |       | 021    | Ohio                                     |            |       |      |
|                        |       | 023    | Delaware                                 |            |       | 041  |
|                        |       | 025    | Fairfield                                |            |       | 045  |
|                        |       | 045    | Franklin                                 |            |       | 049  |
|                        |       | 049    | Licking                                  |            |       | 089  |
|                        |       | 065    | Madison                                  |            |       | 097  |
|                        |       |        | Pickaway                                 |            |       | 129  |
| 065                    | 44    |        | Corpus Christi, TX, MSA                  | 1880       | 48    |      |
|                        |       | 178    | Texas                                    |            |       |      |
|                        |       | 205    | Nueces                                   |            |       | 355  |
|                        |       |        | San Patricio                             |            |       | 409  |
| 066                    | 21    |        | Cumberland, MD-WV, MSA                   | 1900       | 24    |      |
|                        |       | 001    | Maryland                                 |            |       |      |
|                        |       |        | Allegany                                 |            |       | 001  |
|                        | 49    |        | West Virginia                            |            | 54    |      |
|                        |       | 029    | Mineral                                  |            |       | 057  |
| 067                    | 44    |        | Dallas, TX, PMSA                         | 1920       | 48    |      |
|                        |       | 043    | Texas                                    |            |       |      |
|                        |       | 057    | Collin                                   |            |       | 085  |
|                        |       | 061    | Dallas                                   |            |       | 113  |
|                        |       | 070    | Denton                                   |            |       | 121  |
|                        |       | 107    | Ellis                                    |            |       | 139  |
|                        |       | 116    | Henderson                                |            |       | 213  |
|                        |       | 129    | Hunt                                     |            |       | 231  |
|                        |       | 199    | Kaufman                                  |            |       | 257  |
|                        |       |        | Rockwall                                 |            |       | 397  |
| 068                    | 47    |        | Danville, VA, MSA                        | 1950       | 51    |      |
|                        |       | 035    | Virginia                                 |            |       |      |
|                        |       | 097    | Danville city                            |            |       | 590  |
|                        |       |        | Pittsylvania                             |            |       | 143  |
| 069                    | 14    |        | Davenport-Moline-Rock Island, IA-IL, MSA | 1960       | 17    |      |
|                        |       | 037    | Illinois                                 |            |       |      |
|                        |       | 081    | Henry                                    |            |       | 073  |
|                        |       |        | Rock Island                              |            |       | 161  |
|                        | 16    |        | Iowa                                     |            | 19    |      |
|                        |       | 082    | Scott                                    |            |       | 163  |

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| P/MSA                  | State | County | P/MSA Name and County Components |  | P/MSA      | State | Cnty |
| 070                    | 36    |        | Dayton-Springfield, OH, MSA      |  | 2000       | 39    |      |
|                        |       | 012    | Ohio                             |  |            |       |      |
|                        |       | 029    | Clark                            |  |            |       | 023  |
|                        |       | 055    | Greene                           |  |            |       | 057  |
|                        |       | 057    | Miami                            |  |            |       | 109  |
|                        |       |        | Montgomery                       |  |            |       | 113  |
| 071                    | 10    |        | Daytona Beach, FL, MSA           |  | 2020       | 12    |      |
|                        |       | 018    | Florida                          |  |            |       |      |
|                        |       | 064    | Flagler                          |  |            |       | 035  |
|                        |       |        | Volusia                          |  |            |       | 127  |
| 072                    | 01    |        | Decatur, AL, MSA                 |  | 2030       | 01    |      |
|                        |       | 040    | Alabama                          |  |            |       |      |
|                        |       | 052    | Lawrence                         |  |            |       | 079  |
|                        |       |        | Morgan                           |  |            |       | 103  |
| 073                    | 14    |        | Decatur, IL, MSA                 |  | 2040       | 17    |      |
|                        |       | 058    | Illinois                         |  |            |       |      |
|                        |       |        | Macon                            |  |            |       | 115  |
| 074                    | 06    |        | Denver, CO, PMSA                 |  | 2080       | 08    |      |
|                        |       | 001    | Colorado                         |  |            |       | 001  |
|                        |       | 003    | Adams                            |  |            |       | 005  |
|                        |       | 016    | Arapahoe                         |  |            |       | 031  |
|                        |       | 018    | Denver                           |  |            |       | 035  |
|                        |       | 030    | Douglas                          |  |            |       | 059  |
|                        |       |        | Jefferson                        |  |            |       |      |
| 075                    | 16    |        | Des Moines, IA, MSA              |  | 2120       | 19    |      |
|                        |       | 025    | Iowa                             |  |            |       |      |
|                        |       | 077    | Dallas                           |  |            |       | 049  |
|                        |       | 091    | Polk                             |  |            |       | 153  |
|                        |       |        | Warren                           |  |            |       | 181  |
| 076                    | 23    |        | Detroit, MI, PMSA                |  | 2160       | 26    |      |
|                        |       | 044    | Michigan                         |  |            |       |      |
|                        |       | 050    | Lapeer                           |  |            |       | 087  |
|                        |       | 058    | Macomb                           |  |            |       | 099  |
|                        |       | 063    | Monroe                           |  |            |       | 115  |
|                        |       | 074    | Oakland                          |  |            |       | 125  |
|                        |       | 082    | St. Clair                        |  |            |       | 147  |
|                        |       |        | Wayne                            |  |            |       | 163  |
| 077                    | 01    |        | Dothan, AL, MSA                  |  | 2180       | 01    |      |
|                        |       | 023    | Alabama                          |  |            |       |      |
|                        |       | 035    | Dale                             |  |            |       | 045  |
|                        |       |        | Houston                          |  |            |       | 069  |
| 078                    | 08    |        | Dover, DE, MSA                   |  | 2190       | 10    |      |
|                        |       | 001    | Delaware                         |  |            |       |      |
|                        |       |        | Kent                             |  |            |       | 001  |
| 079                    | 16    |        | Dubuque, IA, MSA                 |  | 2200       | 19    |      |
|                        |       | 031    | Iowa                             |  |            |       |      |
|                        |       |        | Dubuque                          |  |            |       | 061  |
| 080                    | 24    |        | Duluth-Superior, MN-WI, MSA      |  | 2240       | 27    |      |
|                        |       | 069    | Minnesota                        |  |            |       |      |
|                        |       |        | St. Louis                        |  |            |       | 137  |
|                        | 50    |        | Wisconsin                        |  |            | 55    |      |
|                        |       | 016    | Douglas                          |  |            |       | 031  |
| 081                    | 33    |        | Dutchess County, NY, PMSA        |  | 2281       | 36    |      |
|                        |       | 013    | New York                         |  |            |       |      |
|                        |       |        | Dutchess                         |  |            |       | 027  |
| 082                    | 50    |        | Eau Claire, WI, MSA              |  | 2290       | 55    |      |
|                        |       | 009    | Wisconsin                        |  |            |       |      |
|                        |       | 018    | Chippewa                         |  |            |       | 017  |
|                        |       |        | Eau Claire                       |  |            |       | 035  |

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|------------------------|-------|--------|---|--|------------|-------|------|
| P/MSA                  | State | County | P/MSA Name and County Components        |  | P/MSA      | State | Cnty |
| 083                    | 44    | 071    | El Paso, TX, MSA                        |  | 2320       | 48    | 141  |
|                        |       |        | Texas                                   |  |            |       |      |
|                        |       |        | El Paso                                 |  |            |       |      |
| 084                    | 15    | 020    | Elkhart-Goshen, IN, MSA                 |  | 2330       | 18    | 039  |
|                        |       |        | Indiana                                 |  |            |       |      |
|                        |       |        | Elkhart                                 |  |            |       |      |
| 085                    | 33    | 007    | Elmira, NY, MSA                         |  | 2335       | 36    | 015  |
|                        |       |        | New York                                |  |            |       |      |
|                        |       |        | Chemung                                 |  |            |       |      |
| 086                    | 37    | 024    | Enid, OK, MSA                           |  | 2340       | 40    | 047  |
|                        |       |        | Oklahoma                                |  |            |       |      |
|                        |       |        | Garfield                                |  |            |       |      |
| 087                    | 39    | 025    | Erie, PA, MSA                           |  | 2360       | 42    | 049  |
|                        |       |        | Pennsylvania                            |  |            |       |      |
|                        |       |        | Erie                                    |  |            |       |      |
| 088                    | 38    | 020    | Eugene-Springfield, OR, MSA             |  | 2400       | 41    | 039  |
|                        |       |        | Oregon                                  |  |            |       |      |
|                        |       |        | Lane                                    |  |            |       |      |
| 089                    | 15    | 065    | Evansville-Henderson, IN-KY, MSA        |  | 2440       | 18    | 129  |
|                        |       | 082    | Indiana                                 |  |            |       | 163  |
|                        |       | 087    | Posey                                   |  |            |       | 173  |
|                        |       |        | Vanderburgh                             |  |            |       |      |
|                        | 18    | 051    | Warrick                                 |  |            | 21    | 101  |
|                        |       |        | Kentucky                                |  |            |       |      |
|                        |       |        | Henderson                               |  |            |       |      |
| 090                    | 24    | 014    | Fargo-Moorhead, ND-MN, MSA              |  | 2520       | 27    | 027  |
|                        |       |        | Minnesota                               |  |            |       |      |
|                        |       |        | Clay                                    |  |            |       |      |
|                        | 35    | 009    | North Dakota                            |  |            | 38    | 017  |
|                        |       |        | Cass                                    |  |            |       |      |
| 091                    | 34    | 026    | Fayetteville, NC, MSA                   |  | 2560       | 37    | 051  |
|                        |       |        | North Carolina                          |  |            |       |      |
|                        |       |        | Cumberland                              |  |            |       |      |
| 092                    | 04    | 004    | Fayetteville-Springdale-Rogers, AR, MSA |  | 2580       | 05    | 007  |
|                        |       | 072    | Arkansas                                |  |            |       | 143  |
|                        |       |        | Benton                                  |  |            |       |      |
|                        |       |        | Washington                              |  |            |       |      |
| 093                    | 23    | 025    | Flint, MI, PMSA                         |  | 2640       | 26    | 049  |
|                        |       |        | Michigan                                |  |            |       |      |
|                        |       |        | Genesee                                 |  |            |       |      |
| 094                    | 01    | 017    | Florence, AL, MSA                       |  | 2650       | 01    | 033  |
|                        |       | 039    | Alabama                                 |  |            |       | 077  |
|                        |       |        | Colbert                                 |  |            |       |      |
|                        |       |        | Lauderdale                              |  |            |       |      |
| 095                    | 41    | 021    | Florence, SC, MSA                       |  | 2655       | 45    | 041  |
|                        |       |        | South Carolina                          |  |            |       |      |
|                        |       |        | Florence                                |  |            |       |      |
| 096                    | 06    | 035    | Fort Collins-Loveland, CO, MSA          |  | 2670       | 08    | 069  |
|                        |       |        | Colorado                                |  |            |       |      |
|                        |       |        | Larimer                                 |  |            |       |      |
| 097                    | 10    | 006    | Fort Lauderdale, FL, PMSA               |  | 2680       | 12    | 011  |
|                        |       |        | Florida                                 |  |            |       |      |
|                        |       |        | Broward                                 |  |            |       |      |
| 098                    | 10    | 036    | Fort Myers-Cape Coral, FL, MSA          |  | 2700       | 12    | 071  |
|                        |       |        | Florida                                 |  |            |       |      |
|                        |       |        | Lee                                     |  |            |       |      |

| Vital Statistics Codes |       |        | P/MSA Name and County Components    | FIPS Codes |       |      |
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| P/MSA                  | State | County |                                     | P/MSA      | State | Cnty |
| 099                    | 10    |        | Fort Pierce-Port St. Lucie, FL, MSA | 2710       | 12    |      |
|                        |       | 043    | Florida                             |            |       | 085  |
|                        |       | 056    | Martin                              |            |       | 111  |
|                        |       |        | St. Lucie                           |            |       |      |
| 100                    | 04    |        | Fort Smith, AR-OK, MSA              | 2720       | 05    |      |
|                        |       | 017    | Arkansas                            |            |       | 033  |
|                        |       | 066    | Crawford                            |            |       | 131  |
|                        | 37    |        | Sebastian                           |            | 40    |      |
|                        |       | 068    | Oklahoma                            |            |       | 135  |
|                        |       |        | Sequoyah                            |            |       |      |
| 101                    | 10    |        | Fort Walton Beach, FL, MSA          | 2750       | 12    |      |
|                        |       | 046    | Florida                             |            |       | 091  |
|                        |       |        | Okaloosa                            |            |       |      |
| 102                    | 15    |        | Fort Wayne, IN, MSA                 | 2760       | 18    |      |
|                        |       | 001    | Indiana                             |            |       | 001  |
|                        |       | 002    | Adams                               |            |       | 003  |
|                        |       | 017    | Allen                               |            |       | 033  |
|                        |       | 035    | De Kalb                             |            |       | 069  |
|                        |       | 090    | Huntington                          |            |       | 179  |
|                        |       | 092    | Wells                               |            |       | 183  |
|                        |       |        | Whitley                             |            |       |      |
| 103                    | 44    |        | Fort Worth-Arlington, TX, PMSA      | 2800       | 48    |      |
|                        |       | 111    | Texas                               |            |       | 221  |
|                        |       | 126    | Hood                                |            |       | 251  |
|                        |       | 184    | Johnson                             |            |       | 367  |
|                        |       | 220    | Parker                              |            |       | 439  |
|                        |       |        | Tarrant                             |            |       |      |
| 104                    | 05    |        | Fresno, CA, MSA                     | 2840       | 06    |      |
|                        |       | 010    | California                          |            |       | 019  |
|                        |       | 020    | Fresno                              |            |       | 039  |
|                        |       |        | Madera                              |            |       |      |
| 105                    | 01    |        | Gadsden, AL, MSA                    | 2880       | 01    |      |
|                        |       | 028    | Alabama                             |            |       | 055  |
|                        |       |        | Etowah                              |            |       |      |
| 106                    | 10    |        | Gainesville, FL, MSA                | 2900       | 12    |      |
|                        |       | 001    | Florida                             |            |       | 001  |
|                        |       |        | Alachua                             |            |       |      |
| 107                    | 44    |        | Galveston-Texas City, TX, PMSA      | 2920       | 48    |      |
|                        |       | 084    | Texas                               |            |       | 167  |
|                        |       |        | Galveston                           |            |       |      |
| 108                    | 15    |        | Gary, IN, PMSA                      | 2960       | 18    |      |
|                        |       | 045    | Indiana                             |            |       | 089  |
|                        |       | 064    | Lake                                |            |       | 127  |
|                        |       |        | Porter                              |            |       |      |
| 109                    | 33    |        | Glens Falls, NY, MSA                | 2975       | 36    |      |
|                        |       | 053    | New York                            |            |       | 113  |
|                        |       | 054    | Warren                              |            |       | 115  |
|                        |       |        | Washington                          |            |       |      |
| 110                    | 34    |        | Goldsboro, NC, MSA                  | 2980       | 37    |      |
|                        |       | 096    | North Carolina                      |            |       | 191  |
|                        |       |        | Wayne                               |            |       |      |
| 111                    | 24    |        | Grand Forks, ND-MN, MSA             | 2985       | 27    |      |
|                        |       | 060    | Minnesota                           |            |       | 119  |
|                        | 35    |        | Polk                                |            | 38    |      |
|                        |       | 018    | North Dakota                        |            |       | 035  |
|                        |       |        | Grand Forks                         |            |       |      |

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|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 112                    | 23    |        | Grand Rapids-Muskegon-Holland, MI, MSA         | 3000       | 26    |      |
|                        |       | 003    | Michigan                                       |            |       | 005  |
|                        |       | 041    | Allegan  |            |       | 081  |
|                        |       | 061    | Kent   |            |       | 121  |
|                        |       | 070    | Muskegon                                       |            |       | 139  |
|                        |       |        | Ottawa   |            |       |      |
| 113                    | 27    |        | Great Falls, MT, MSA                           | 3040       | 30    |      |
|                        |       | 007    | Montana  |            |       | 013  |
|                        |       |        | Cascade  |            |       |      |
| 114                    | 06    |        | Greeley, CO, PMSA                              | 3060       | 08    |      |
|                        |       | 062    | Colorado                                       |            |       | 123  |
|                        |       |        | Weld   |            |       |      |
| 115                    | 50    |        | Green Bay, WI, MSA                             | 3080       | 55    |      |
|                        |       | 005    | Wisconsin                                      |            |       | 009  |
|                        |       |        | Brown  |            |       |      |
| 116                    | 34    |        | Greensboro--Winston-Salem--High Point, NC, MSA | 3120       | 37    |      |
|                        |       | 001    | North Carolina                                 |            |       | 001  |
|                        |       | 029    | Alamance                                       |            |       | 057  |
|                        |       | 030    | Davidson                                       |            |       | 059  |
|                        |       | 034    | Davie  |            |       | 067  |
|                        |       | 041    | Forsyth  |            |       | 081  |
|                        |       | 076    | Guilford                                       |            |       | 151  |
|                        |       | 085    | Randolph                                       |            |       | 169  |
|                        |       | 099    | Stokes   |            |       | 197  |
|                        |       |        | Yadkin   |            |       |      |
| 117                    | 34    |        | Greenville, NC, MSA                            | 3150       | 37    |      |
|                        |       | 074    | North Carolina                                 |            |       | 147  |
|                        |       |        | Pitt   |            |       |      |
| 118                    | 41    |        | Greenville-Spartanburg-Anderson, SC, MSA       | 3160       | 45    |      |
|                        |       | 004    | South Carolina                                 |            |       | 007  |
|                        |       | 011    | Anderson                                       |            |       | 021  |
|                        |       | 023    | Cherokee                                       |            |       | 045  |
|                        |       | 039    | Greenville                                     |            |       | 077  |
|                        |       | 042    | Pickens  |            |       | 083  |
|                        |       |        | Spartanburg                                    |            |       |      |
| 119                    | 21    |        | Hagerstown, MD, PMSA                           | 3180       | 24    |      |
|                        |       | 022    | Maryland                                       |            |       | 043  |
|                        |       |        | Washington                                     |            |       |      |
| 120                    | 36    |        | Hamilton-Middletown, OH, PMSA                  | 3200       | 39    |      |
|                        |       | 009    | Ohio   |            |       | 017  |
|                        |       |        | Butler   |            |       |      |
| 121                    | 39    |        | Harrisburg-Lebanon-Carlisle, PA, MSA           | 3240       | 42    |      |
|                        |       | 021    | Pennsylvania                                   |            |       | 041  |
|                        |       | 022    | Cumberland                                     |            |       | 043  |
|                        |       | 038    | Dauphin  |            |       | 075  |
|                        |       | 050    | Lebanon  |            |       | 099  |
|                        |       |        | Perry  |            |       |      |
| 122                    | 07    |        | Hartford, CT, NECMA                            | 3283       | 09    |      |
|                        |       | 002    | Connecticut                                    |            |       | 003  |
|                        |       | 004    | Hartford                                       |            |       | 007  |
|                        |       | 007    | Middlesex                                      |            |       | 013  |
|                        |       |        | Tolland  |            |       |      |
| 123                    | 25    |        | Hattiesburg, MS, MSA                           | 3285       | 28    |      |
|                        |       | 018    | Mississippi                                    |            |       | 035  |
|                        |       | 037    | Forrest  |            |       | 073  |
|                        |       |        | Lamar  |            |       |      |
| 124                    | 34    |        | Hickory-Morganton, NC, MSA                     | 3290       | 37    |      |
|                        |       | 002    | North Carolina                                 |            |       | 003  |
|                        |       | 012    | Alexander                                      |            |       | 023  |
|                        |       | 014    | Burke  |            |       | 027  |
|                        |       | 018    | Caldwell                                       |            |       | 035  |
|                        |       |        | Catawba  |            |       |      |

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| P/MSA                  | State | County | P/MSA Name and County Components  |  | P/MSA      | State | Cnty |
| 125                    | 12    | 002    | Honolulu, HI, MSA                 |  | 3320       | 15    | 003  |
|                        |       |        | Hawaii                            |  |            |       |      |
|                        |       |        | Honolulu                          |  |            |       |      |
| 126                    | 19    | 029    | Houma, LA, MSA                    |  | 3350       | 22    | 057  |
|                        |       | 055    | Louisiana                         |  |            |       | 109  |
|                        |       |        | Lafourche                         |  |            |       |      |
|                        |       |        | Terrebonne                        |  |            |       |      |
| 127                    | 44    |        | Houston, TX, PMSA                 |  | 3360       | 48    |      |
|                        |       |        | Texas                             |  |            |       |      |
|                        |       | 036    | Chambers                          |  |            |       | 071  |
|                        |       | 079    | Fort Bend                         |  |            |       | 157  |
|                        |       | 101    | Harris                            |  |            |       | 201  |
|                        |       | 146    | Liberty                           |  |            |       | 291  |
|                        |       | 170    | Montgomery                        |  |            |       | 339  |
|                        |       | 237    | Waller                            |  |            |       | 473  |
| 128                    | 18    |        | Huntington-Ashland, WV-KY-OH, MSA |  | 3400       | 21    |      |
|                        |       | 010    | Kentucky                          |  |            |       | 019  |
|                        |       | 022    | Boyd                              |  |            |       | 043  |
|                        |       | 045    | Carter                            |  |            |       | 089  |
|                        | 36    |        | Greenup                           |  |            | 39    |      |
|                        |       |        | Ohio                              |  |            |       |      |
|                        | 49    | 044    | Lawrence                          |  |            | 54    | 087  |
|                        |       | 006    | West Virginia                     |  |            |       | 011  |
|                        |       | 050    | Cabell                            |  |            |       | 099  |
|                        |       |        | Wayne                             |  |            |       |      |
| 129                    | 01    |        | Huntsville, AL, MSA               |  | 3440       | 01    |      |
|                        |       | 042    | Alabama                           |  |            |       | 083  |
|                        |       | 045    | Limestone                         |  |            |       | 089  |
|                        |       |        | Madison                           |  |            |       |      |
| 130                    | 15    |        | Indianapolis, IN, MSA             |  | 3480       | 18    |      |
|                        |       | 006    | Indiana                           |  |            |       | 011  |
|                        |       | 029    | Boone                             |  |            |       | 057  |
|                        |       | 030    | Hamilton                          |  |            |       | 059  |
|                        |       | 032    | Hancock                           |  |            |       | 063  |
|                        |       | 041    | Hendricks                         |  |            |       | 081  |
|                        |       | 048    | Johnson                           |  |            |       | 095  |
|                        |       | 049    | Madison                           |  |            |       | 097  |
|                        |       | 055    | Marion                            |  |            |       | 109  |
|                        |       | 073    | Morgan                            |  |            |       | 145  |
|                        |       |        | Shelby                            |  |            |       |      |
| 131                    | 16    | 052    | Iowa City, IA, MSA                |  | 3500       | 19    | 103  |
|                        |       |        | Iowa                              |  |            |       |      |
|                        |       |        | Johnson                           |  |            |       |      |
| 132                    | 23    | 038    | Jackson, MI, MSA                  |  | 3520       | 26    | 075  |
|                        |       |        | Michigan                          |  |            |       |      |
|                        |       |        | Jackson                           |  |            |       |      |
| 133                    | 25    |        | Jackson, MS, MSA                  |  | 3560       | 28    |      |
|                        |       | 025    | Mississippi                       |  |            |       | 049  |
|                        |       | 045    | Hinds                             |  |            |       | 089  |
|                        |       | 061    | Madison                           |  |            |       | 121  |
|                        |       |        | Rankin                            |  |            |       |      |
| 134                    | 43    | 057    | Jackson, TN, MSA                  |  | 3580       | 47    | 113  |
|                        |       |        | Tennessee                         |  |            |       |      |
|                        |       |        | Madison                           |  |            |       |      |
| 135                    | 10    |        | Jacksonville, FL, MSA             |  | 3600       | 12    |      |
|                        |       | 010    | Florida                           |  |            |       | 019  |
|                        |       | 016    | Clay                              |  |            |       | 031  |
|                        |       | 045    | Duval                             |  |            |       | 089  |
|                        |       | 055    | Nassau                            |  |            |       | 109  |
|                        |       |        | St. Johns                         |  |            |       |      |
| 136                    | 34    | 067    | Jacksonville, NC, MSA             |  | 3605       | 37    | 133  |
|                        |       |        | North Carolina                    |  |            |       |      |
|                        |       |        | Onslow                            |  |            |       |      |

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| P/MSA                  | State | County | P/MSA Name and County Components                |  | P/MSA      | State | Cnty |
| 137                    | 33    | 006    | Jamestown, NY, MSA<br>New York<br>Chautauqua    |  | 3610       | 36    | 013  |
| 138                    | 50    | 054    | Janesville-Beloit, WI, MSA<br>Wisconsin<br>Rock |  | 3620       | 55    | 105  |
| 139                    | 31    | 009    | Jersey City, NJ, PMSA<br>New Jersey<br>Hudson   |  | 3640       | 34    | 017  |
| 140                    | 43    |        | Johnson City-Kingsport-Bristol, TN-VA, MSA      |  | 3660       | 47    |      |
|                        |       | 010    | Tennessee                                       |  |            |       | 019  |
|                        |       | 037    | Carter  |  |            |       | 073  |
|                        |       | 082    | Hawkins   |  |            |       | 163  |
|                        |       | 086    | Sullivan  |  |            |       | 171  |
|                        |       | 090    | Unicoi  |  |            |       | 179  |
|                        | 47    |        | Washington                                      |  |            | 51    |      |
|                        |       | 015    | Virginia  |  |            |       | 520  |
|                        |       | 115    | Bristol city                                    |  |            |       | 169  |
|                        |       | 129    | Scott   |  |            |       | 191  |
| 141                    | 39    |        | Johnstown, PA, MSA                              |  | 3680       | 42    |      |
|                        |       | 011    | Pennsylvania                                    |  |            |       | 021  |
|                        |       | 056    | Cambria   |  |            |       | 111  |
| 142                    | 26    |        | Joplin, MO, MSA                                 |  | 3710       | 29    |      |
|                        |       | 049    | Missouri  |  |            |       | 097  |
|                        |       | 073    | Jasper  |  |            |       | 145  |
| 143                    | 23    |        | Kalamazoo-Battle Creek, MI, MSA                 |  | 3720       | 26    |      |
|                        |       | 013    | Michigan  |  |            |       | 025  |
|                        |       | 039    | Calhoun   |  |            |       | 077  |
|                        |       | 080    | Kalamazoo                                       |  |            |       | 159  |
| 144                    | 14    |        | Kankakee, IL, PMSA                              |  | 3740       | 17    |      |
|                        |       | 046    | Illinois  |  |            |       | 091  |
| 145                    | 17    |        | Kansas City, MO-KS, MSA                         |  | 3760       | 20    |      |
|                        |       | 046    | Kansas  |  |            |       | 091  |
|                        |       | 052    | Johnson   |  |            |       | 103  |
|                        |       | 061    | Leavenworth                                     |  |            |       | 121  |
|                        |       | 105    | Miami   |  |            |       | 209  |
|                        | 26    |        | Wyandotte                                       |  |            | 29    |      |
|                        |       | 019    | Missouri  |  |            |       | 037  |
|                        |       | 024    | Cass  |  |            |       | 047  |
|                        |       | 025    | Clay  |  |            |       | 049  |
|                        |       | 048    | Clinton   |  |            |       | 095  |
|                        |       | 054    | Jackson   |  |            |       | 107  |
|                        |       | 083    | Lafayette                                       |  |            |       | 165  |
|                        |       | 089    | Platte  |  |            |       | 177  |
| 146                    | 50    | 030    | Kenosha, WI, PMSA                               |  | 3800       | 55    | 059  |
| 147                    | 44    |        | Killeen-Temple, TX, MSA                         |  | 3810       | 48    |      |
|                        |       | 014    | Texas   |  |            |       | 027  |
|                        |       | 050    | Bell  |  |            |       | 099  |
|                        |       |        | Coryell   |  |            |       |      |

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|------------------------|-------|--------|----------------------------------|------------|-------|------|
| P/MSA                  | State | County |                                  | P/MSA      | State | Cnty |
| 148                    | 43    |        | Knoxville, TN, MSA               | 3840       | 47    |      |
|                        |       | 001    | Tennessee                        |            |       | 001  |
|                        |       | 005    | Anderson                         |            |       | 009  |
|                        |       | 047    | Blount                           |            |       | 093  |
|                        |       | 053    | Knox                             |            |       | 105  |
|                        |       | 078    | Loudon                           |            |       | 155  |
|                        |       | 087    | Sevier                           |            |       | 173  |
|                        |       |        | Union                            |            |       |      |
| 149                    | 15    |        | Kokomo, IN, MSA                  | 3850       | 18    |      |
|                        |       | 034    | Indiana                          |            |       | 067  |
|                        |       | 080    | Howard                           |            |       | 159  |
|                        |       |        | Tipton                           |            |       |      |
| 150                    | 24    |        | La Crosse, WI-MN, MSA            | 3870       | 27    |      |
|                        |       | 028    | Minnesota                        |            |       | 055  |
|                        | 50    |        | Houston                          |            | 55    | 063  |
|                        |       | 032    | Wisconsin                        |            |       |      |
|                        |       |        | La Crosse                        |            |       |      |
| 151                    | 19    |        | Lafayette, LA, MSA               | 3880       | 22    |      |
|                        |       | 001    | Louisiana                        |            |       | 001  |
|                        |       | 028    | Acadia                           |            |       | 055  |
|                        |       | 049    | Lafayette                        |            |       | 097  |
|                        |       | 050    | St. Landry                       |            |       | 099  |
|                        |       |        | St. Martin                       |            |       |      |
| 152                    | 15    |        | Lafayette, IN, MSA               | 3920       | 18    |      |
|                        |       | 012    | Indiana                          |            |       | 023  |
|                        |       | 079    | Clinton                          |            |       | 157  |
|                        |       |        | Tippecanoe                       |            |       |      |
| 153                    | 19    |        | Lake Charles, LA, MSA            | 3960       | 22    |      |
|                        |       | 010    | Louisiana                        |            |       | 019  |
|                        |       |        | Calcasieu                        |            |       |      |
| 154                    | 10    |        | Lakeland-Winter Haven, FL, MSA   | 3980       | 12    |      |
|                        |       | 053    | Florida                          |            |       | 105  |
|                        |       |        | Polk                             |            |       |      |
| 155                    | 39    |        | Lancaster, PA, MSA               | 4000       | 42    |      |
|                        |       | 036    | Pennsylvania                     |            |       | 071  |
|                        |       |        | Lancaster                        |            |       |      |
| 156                    | 23    |        | Lansing-East Lansing, MI, MSA    | 4040       | 26    |      |
|                        |       | 019    | Michigan                         |            |       | 037  |
|                        |       | 023    | Clinton                          |            |       | 045  |
|                        |       | 033    | Eaton                            |            |       | 065  |
|                        |       |        | Ingham                           |            |       |      |
| 157                    | 44    |        | Laredo, TX, MSA                  | 4080       | 48    |      |
|                        |       | 240    | Texas                            |            |       | 479  |
|                        |       |        | Webb                             |            |       |      |
| 158                    | 32    |        | Las Cruces, NM, MSA              | 4100       | 35    |      |
|                        |       | 008    | New Mexico                       |            |       | 013  |
|                        |       |        | Dona Ana                         |            |       |      |
| 159                    | 03    |        | Las Vegas, NV-AZ, MSA            | 4120       | 04    |      |
|                        |       | 009    | Arizona                          |            |       | 015  |
|                        | 29    |        | Mohave                           |            | 32    | 003  |
|                        |       | 003    | Nevada                           |            |       | 023  |
|                        |       | 013    | Clark                            |            |       |      |
|                        |       |        | Nye                              |            |       |      |
| 160                    | 17    |        | Lawrence, KS, MSA                | 4150       | 20    |      |
|                        |       | 023    | Kansas                           |            |       | 045  |
|                        |       |        | Douglas                          |            |       |      |
| 161                    | 37    |        | Lawton, OK, MSA                  | 4200       | 40    |      |
|                        |       | 016    | Oklahoma                         |            |       | 031  |
|                        |       |        | Comanche                         |            |       |      |

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| P/MSA                  | State | County | P/MSA Name and County Components       |      | P/MSA      | State | Cnty |
| 162                    | 20    | 001    | Lewiston-Auburn, ME, NECMA             | 4243 | 23         | 001   |      |
|                        |       |        | Maine                                  |      |            |       |      |
|                        |       |        | Androscoggin                           |      |            |       |      |
| 163                    | 18    | 009    | Lexington, KY, MSA                     | 4280 | 21         | 017   |      |
|                        |       | 025    | Kentucky                               |      |            | 049   |      |
|                        |       | 034    | Bourbon                                |      |            | 067   |      |
|                        |       | 057    | Clark                                  |      |            | 113   |      |
|                        |       | 076    | Fayette                                |      |            | 151   |      |
|                        |       | 105    | Jessamine                              |      |            | 209   |      |
|                        |       | 120    | Madison                                |      |            | 239   |      |
|                        |       |        | Scott                                  |      |            |       |      |
|                        |       |        | Woodford                               |      |            |       |      |
| 164                    | 36    | 002    | Lima, OH, MSA                          | 4320 | 39         | 003   |      |
|                        |       | 006    | Ohio                                   |      |            | 011   |      |
|                        |       |        | Allen                                  |      |            |       |      |
|                        |       |        | Auglaize                               |      |            |       |      |
| 165                    | 28    | 055    | Lincoln, NE, MSA                       | 4360 | 31         | 109   |      |
|                        |       |        | Nebraska                               |      |            |       |      |
|                        |       |        | Lancaster                              |      |            |       |      |
| 166                    | 04    | 023    | Little Rock-North Little Rock, AR, MSA | 4400 | 05         | 045   |      |
|                        |       | 043    | Arkansas                               |      |            | 085   |      |
|                        |       | 060    | Faulkner                               |      |            | 119   |      |
|                        |       | 063    | Lonoke                                 |      |            | 125   |      |
|                        |       |        | Pulaski                                |      |            |       |      |
|                        |       |        | Saline                                 |      |            |       |      |
| 167                    | 44    | 092    | Longview-Marshall, TX, MSA             | 4420 | 48         | 183   |      |
|                        |       | 102    | Texas                                  |      |            | 203   |      |
|                        |       | 230    | Gregg                                  |      |            | 459   |      |
|                        |       |        | Harrison                               |      |            |       |      |
|                        |       |        | Upshur                                 |      |            |       |      |
| 168                    | 05    | 019    | Los Angeles-Long Beach, CA, PMSA       | 4480 | 06         | 037   |      |
|                        |       |        | California                             |      |            |       |      |
|                        |       |        | Los Angeles                            |      |            |       |      |
| 169                    | 15    | 010    | Louisville, KY-IN, MSA                 | 4520 | 18         | 019   |      |
|                        |       | 022    | Indiana                                |      |            | 043   |      |
|                        |       | 031    | Clark                                  |      |            | 061   |      |
|                        |       | 072    | Floyd                                  |      |            | 143   |      |
|                        |       |        | Harrison                               |      |            |       |      |
|                        |       |        | Scott                                  |      |            |       |      |
|                        | 18    | 015    | Kentucky                               |      | 21         | 029   |      |
|                        |       | 056    | Bullitt                                |      |            | 111   |      |
|                        |       | 093    | Jefferson                              |      |            | 185   |      |
|                        |       |        | Oldham                                 |      |            |       |      |
| 170                    | 44    | 152    | Lubbock, TX, MSA                       | 4600 | 48         | 303   |      |
|                        |       |        | Texas                                  |      |            |       |      |
|                        |       |        | Lubbock                                |      |            |       |      |
| 171                    | 47    | 006    | Lynchburg, VA, MSA                     | 4640 | 51         | 009   |      |
|                        |       | 011    | Virginia                               |      |            | 019   |      |
|                        |       | 012    | Amherst                                |      |            | 515   |      |
|                        |       | 020    | Bedford                                |      |            | 031   |      |
|                        |       | 076    | Bedford city                           |      |            | 680   |      |
|                        |       |        | Campbell                               |      |            |       |      |
|                        |       |        | Lynchburg city                         |      |            |       |      |
| 172                    | 11    | 011    | Macon, GA, MSA                         | 4680 | 13         | 021   |      |
|                        |       | 076    | Georgia                                |      |            | 153   |      |
|                        |       | 084    | Bibb                                   |      |            | 169   |      |
|                        |       | 111    | Houston                                |      |            | 225   |      |
|                        |       | 143    | Jones                                  |      |            | 289   |      |
|                        |       |        | Peach                                  |      |            |       |      |
|                        |       |        | Twiggs                                 |      |            |       |      |
| 173                    | 50    | 013    | Madison, WI, MSA                       | 4720 | 55         | 025   |      |
|                        |       |        | Wisconsin                              |      |            |       |      |
|                        |       |        | Dane                                   |      |            |       |      |

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| Vital Statistics Codes |       |        | P/MSA Name and County Components       | FIPS Codes |       |      |
|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 174                    | 36    |        | Mansfield, OH, MSA                     | 4800       | 39    |      |
|                        |       | 017    | Ohio                                   |            |       |      |
|                        |       | 070    | Crawford                               |            |       | 033  |
|                        |       |        | Richland                               |            |       | 139  |
| 175                    | 44    |        | McAllen-Edinburg-Mission, TX, MSA      | 4880       | 48    |      |
|                        |       | 108    | Texas                                  |            |       |      |
|                        |       |        | Hidalgo                                |            |       | 215  |
| 176                    | 38    |        | Medford-Ashland, OR, MSA               | 4890       | 41    |      |
|                        |       | 015    | Oregon                                 |            |       |      |
|                        |       |        | Jackson                                |            |       | 029  |
| 177                    | 10    |        | Melbourne-Titusville-Palm Bay, FL, MSA | 4900       | 12    |      |
|                        |       | 005    | Florida                                |            |       |      |
|                        |       |        | Brevard                                |            |       | 009  |
| 178                    | 04    |        | Memphis, TN-AR-MS, MSA                 | 4920       | 05    |      |
|                        |       | 018    | Arkansas                               |            |       |      |
|                        |       |        | Crittenden                             |            |       | 035  |
|                        | 25    |        | Mississippi                            |            | 28    |      |
|                        |       | 017    | De Soto                                |            |       | 033  |
|                        | 43    |        | Tennessee                              |            | 47    |      |
|                        |       | 024    | Fayette                                |            |       | 047  |
|                        |       | 079    | Shelby                                 |            |       | 157  |
|                        |       | 084    | Tipton                                 |            |       | 167  |
| 179                    | 05    |        | Merced, CA, MSA                        | 4940       | 06    |      |
|                        |       | 024    | California                             |            |       |      |
|                        |       |        | Merced                                 |            |       | 047  |
| 180                    | 10    |        | Miami, FL, PMSA                        | 5000       | 12    |      |
|                        |       | 013    | Florida                                |            |       |      |
|                        |       |        | Dade                                   |            |       | 025  |
| 181                    | 31    |        | Middlesex-Somerset-Hunterdon, NJ, PMSA | 5015       | 34    |      |
|                        |       | 010    | New Jersey                             |            |       |      |
|                        |       |        | Hunterdon                              |            |       | 019  |
|                        |       | 012    | Middlesex                              |            |       | 023  |
|                        |       | 018    | Somerset                               |            |       | 035  |
| 182                    | 50    |        | Milwaukee-Waukesha, WI, PMSA           | 5080       | 55    |      |
|                        |       |        | Wisconsin                              |            |       |      |
|                        |       | 041    | Milwaukee                              |            |       | 079  |
|                        |       | 046    | Ozaukee                                |            |       | 089  |
|                        |       | 067    | Washington                             |            |       | 131  |
|                        |       | 068    | Waukesha                               |            |       | 133  |
| 183                    | 24    |        | Minneapolis-St. Paul, MN-WI, MSA       | 5120       | 27    |      |
|                        |       |        | Minnesota                              |            |       |      |
|                        |       | 002    | Anoka                                  |            |       | 003  |
|                        |       | 010    | Carver                                 |            |       | 019  |
|                        |       | 013    | Chisago                                |            |       | 025  |
|                        |       | 019    | Dakota                                 |            |       | 037  |
|                        |       | 027    | Hennepin                               |            |       | 053  |
|                        |       | 030    | Isanti                                 |            |       | 059  |
|                        |       | 062    | Ramsey                                 |            |       | 123  |
|                        |       | 070    | Scott                                  |            |       | 139  |
|                        |       | 071    | Sherburne                              |            |       | 141  |
|                        |       | 082    | Washington                             |            |       | 163  |
|                        |       | 086    | Wright                                 |            |       | 171  |
|                        | 50    |        | Wisconsin                              |            | 55    |      |
|                        |       | 048    | Pierce                                 |            |       | 093  |
|                        |       | 056    | St. Croix                              |            |       | 109  |
| 184                    | 01    |        | Mobile, AL, MSA                        | 5160       | 01    |      |
|                        |       |        | Alabama                                |            |       |      |
|                        |       | 002    | Baldwin                                |            |       | 003  |
|                        |       | 049    | Mobile                                 |            |       | 097  |
| 185                    | 05    |        | Modesto, CA, MSA                       | 5170       | 06    |      |
|                        |       |        | California                             |            |       |      |
|                        |       | 050    | Stanislaus                             |            |       | 099  |

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|------------------------|-------|--------|--|------------|-------|------|
| P/MSA                  | State | County |  | P/MSA      | State | Cnty |
| 186                    | 31    |        | Monmouth-Ocean, NJ, PMSA                                   | 5190       | 34    |      |
|                        |       | 013    | New Jersey   |            |       |      |
|                        |       | 015    | Monmouth   |            |       | 025  |
|                        |       |        | Ocean  |            |       | 029  |
| 187                    | 19    |        | Monroe, LA, MSA  | 5200       | 22    |      |
|                        |       | 037    | Louisiana  |            |       |      |
|                        |       |        | Ouachita   |            |       | 073  |
| 188                    | 01    |        | Montgomery, AL, MSA  | 5240       | 01    |      |
|                        |       | 001    | Alabama  |            |       |      |
|                        |       | 026    | Autauga  |            |       | 001  |
|                        |       | 051    | Elmore   |            |       | 051  |
|                        |       |        | Montgomery   |            |       | 101  |
| 189                    | 15    |        | Muncie, IN, MSA  | 5280       | 18    |      |
|                        |       | 018    | Indiana  |            |       |      |
|                        |       |        | Delaware   |            |       | 035  |
| 190                    | 41    |        | Myrtle Beach, SC, MSA                                      | 5330       | 45    |      |
|                        |       | 026    | South Carolina   |            |       |      |
|                        |       |        | Horry  |            |       | 051  |
| 191                    | 10    |        | Naples, FL, MSA  | 5345       | 12    |      |
|                        |       | 011    | Florida  |            |       |      |
|                        |       |        | Collier  |            |       | 021  |
| 192                    | 43    |        | Nashville, TN, MSA   | 5360       | 47    |      |
|                        |       | 011    | Tennessee  |            |       |      |
|                        |       | 019    | Cheatham   |            |       | 021  |
|                        |       | 022    | Davidson   |            |       | 037  |
|                        |       | 074    | Dickson  |            |       | 043  |
|                        |       | 075    | Robertson  |            |       | 147  |
|                        |       | 083    | Rutherford   |            |       | 149  |
|                        |       | 094    | Sumner   |            |       | 165  |
|                        |       | 095    | Williamson   |            |       | 187  |
|                        |       |        | Wilson   |            |       | 189  |
| 193                    | 33    |        | Nassau-Suffolk, NY, PMSA                                   | 5380       | 36    |      |
|                        |       | 028    | New York   |            |       |      |
|                        |       | 048    | Nassau   |            |       | 059  |
|                        |       |        | Suffolk  |            |       | 103  |
| 194                    | 07    |        | New Haven-Bridgeport-Stamford-Danbury-Waterbury, CT, NECMA | 5483       | 09    |      |
|                        |       | 001    | Connecticut  |            |       |      |
|                        |       | 005    | Fairfield  |            |       | 001  |
|                        |       |        | New Haven  |            |       | 009  |
| 195                    | 07    |        | New London-Norwich, CT, NECMA                              | 5523       | 09    |      |
|                        |       | 006    | Connecticut  |            |       |      |
|                        |       |        | New London   |            |       | 011  |
| 196                    | 19    |        | New Orleans, LA, MSA                                       | 5560       | 22    |      |
|                        |       | 026    | Louisiana  |            |       |      |
|                        |       | 036    | Jefferson  |            |       | 051  |
|                        |       | 038    | Orleans  |            |       | 071  |
|                        |       | 044    | Plaquemines  |            |       | 075  |
|                        |       | 045    | St. Bernard  |            |       | 087  |
|                        |       | 047    | St. Charles  |            |       | 089  |
|                        |       | 048    | St. James  |            |       | 093  |
|                        |       | 052    | St. John the Baptist                                       |            |       | 095  |
|                        |       |        | St. Tammany  |            |       | 103  |
| 197                    | 33    |        | New York, NY, PMSA   | 5600       | 36    |      |
|                        |       | 029    | New York   |            |       |      |
|                        |       | 038    | New York city  |            |       | 005  |
|                        |       | 040    | Putnam   |            |       | 079  |
|                        |       | 056    | Rockland   |            |       | 087  |
|                        |       |        | Westchester  |            |       | 119  |

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|------------------------|-------|--------|---|--|-------|-------|------|
| P/MSA                  | State | County | P/MSA Name and County Components                |  | P/MSA | State | Cnty |
| 198                    | 31    |        | Newark, NJ, PMSA                                |  | 5640  | 34    |      |
|                        |       | 007    | New Jersey                                      |  |       |       | 013  |
|                        |       | 014    | Essex   |  |       |       | 027  |
|                        |       | 019    | Morris  |  |       |       | 037  |
|                        |       | 020    | Sussex  |  |       |       | 039  |
|                        |       | 021    | Union   |  |       |       | 041  |
|                        |       |        | Warren  |  |       |       |      |
| 199                    | 33    |        | Newburgh, NY-PA, PMSA                           |  | 5660  | 36    |      |
|                        |       | 034    | New York  |  |       |       | 071  |
|                        | 39    |        | Orange  |  |       | 42    |      |
|                        |       | 052    | Pennsylvania                                    |  |       |       | 103  |
|                        |       |        | Pike  |  |       |       |      |
| 200                    | 34    |        | Norfolk-Virginia Beach-Newport News, VA-NC, MSA |  | 5720  | 37    |      |
|                        |       | 027    | North Carolina                                  |  |       |       | 053  |
|                        | 47    |        | Currituck                                       |  |       | 51    |      |
|                        |       |        | Virginia  |  |       |       | 550  |
|                        |       | 026    | Chesapeake city                                 |  |       |       | 073  |
|                        |       | 052    | Gloucester                                      |  |       |       | 650  |
|                        |       | 058    | Hampton city                                    |  |       |       | 093  |
|                        |       | 065    | Isle of Wight                                   |  |       |       | 095  |
|                        |       | 066    | James City                                      |  |       |       | 115  |
|                        |       | 081    | Mathews   |  |       |       | 700  |
|                        |       | 087    | Newport News city                               |  |       |       | 710  |
|                        |       | 088    | Norfolk city                                    |  |       |       | 735  |
|                        |       | 098    | Poquoson city                                   |  |       |       | 740  |
|                        |       | 099    | Portsmouth city                                 |  |       |       | 800  |
|                        |       | 123    | Suffolk city                                    |  |       |       | 810  |
|                        |       | 127    | Virginia Beach city                             |  |       |       | 830  |
|                        |       | 132    | Williamsburg city                               |  |       |       | 199  |
|                        |       | 136    | York  |  |       |       |      |
| 201                    | 05    |        | Oakland, CA, PMSA                               |  | 5775  | 06    |      |
|                        |       | 001    | California                                      |  |       |       | 001  |
|                        |       | 007    | Alameda   |  |       |       | 013  |
|                        |       |        | Contra Costa                                    |  |       |       |      |
| 202                    | 10    |        | Ocala, FL, MSA                                  |  | 5790  | 12    |      |
|                        |       | 042    | Florida   |  |       |       | 083  |
|                        |       |        | Marion  |  |       |       |      |
| 203                    | 44    |        | Odessa-Midland, TX, MSA                         |  | 5800  | 48    |      |
|                        |       | 068    | Texas   |  |       |       | 135  |
|                        |       | 165    | Ector   |  |       |       | 329  |
|                        |       |        | Midland   |  |       |       |      |
| 204                    | 37    |        | Oklahoma City, OK, MSA                          |  | 5880  | 40    |      |
|                        |       | 009    | Oklahoma  |  |       |       | 017  |
|                        |       | 014    | Canadian  |  |       |       | 027  |
|                        |       | 042    | Cleveland                                       |  |       |       | 083  |
|                        |       | 044    | Logan   |  |       |       | 087  |
|                        |       | 055    | McClain   |  |       |       | 109  |
|                        |       | 063    | Oklahoma  |  |       |       | 125  |
|                        |       |        | Pottawatomie                                    |  |       |       |      |
| 205                    | 48    |        | Olympia, WA, PMSA                               |  | 5910  | 53    |      |
|                        |       | 034    | Washington                                      |  |       |       | 067  |
|                        |       |        | Thurston  |  |       |       |      |
| 206                    | 16    |        | Omaha, NE-IA, MSA                               |  | 5920  | 19    |      |
|                        |       | 078    | Iowa  |  |       |       | 155  |
|                        | 28    |        | Pottawattamie                                   |  |       | 31    |      |
|                        |       |        | Nebraska  |  |       |       | 025  |
|                        |       | 013    | Cass  |  |       |       | 055  |
|                        |       | 028    | Douglas   |  |       |       | 153  |
|                        |       | 077    | Sarpy   |  |       |       | 177  |
|                        |       | 089    | Washington                                      |  |       |       |      |
| 207                    | 05    |        | Orange County, CA, PMSA                         |  | 5945  | 06    |      |
|                        |       | 030    | California                                      |  |       |       | 059  |
|                        |       |        | Orange  |  |       |       |      |

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|------------------------|-------|--------|----------------------------------|------------|-------|------|
| P/MSA                  | State | County |                                  | P/MSA      | State | Cnty |
| 208                    | 10    |        | Orlando, FL, MSA                 | 5960       | 12    |      |
|                        |       | 035    | Florida                          |            |       | 069  |
|                        |       | 048    | Lake                             |            |       | 095  |
|                        |       | 049    | Orange                           |            |       | 097  |
|                        |       | 059    | Osceola                          |            |       | 117  |
|                        |       |        | Seminole                         |            |       |      |
| 209                    | 18    |        | Owensboro, KY, MSA               | 5990       | 21    |      |
|                        |       | 030    | Kentucky                         |            |       | 059  |
|                        |       |        | Daviess                          |            |       |      |
| 210                    | 10    |        | Panama City, FL, MSA             | 6015       | 12    |      |
|                        |       | 003    | Florida                          |            |       | 005  |
|                        |       |        | Bay                              |            |       |      |
| 211                    | 36    |        | Parkersburg-Marietta, WV-OH, MSA | 6020       | 39    |      |
|                        |       | 084    | Ohio                             |            |       | 167  |
|                        |       | 49     | Washington                       |            | 54    | 107  |
|                        |       | 054    | West Virginia                    |            |       |      |
|                        |       |        | Wood                             |            |       |      |
| 212                    | 10    |        | Pensacola, FL, MSA               | 6080       | 12    |      |
|                        |       | 017    | Florida                          |            |       | 033  |
|                        |       | 057    | Escambia                         |            |       | 113  |
|                        |       |        | Santa Rosa                       |            |       |      |
| 213                    | 14    |        | Peoria-Pekin, IL, MSA            | 6120       | 17    |      |
|                        |       | 072    | Illinois                         |            |       | 143  |
|                        |       | 090    | Peoria                           |            |       | 179  |
|                        |       | 102    | Tazewell                         |            |       | 203  |
|                        |       |        | Woodford                         |            |       |      |
| 214                    | 31    |        | Philadelphia, PA-NJ, PMSA        | 6160       | 34    |      |
|                        |       | 003    | New Jersey                       |            |       | 005  |
|                        |       | 004    | Burlington                       |            |       | 007  |
|                        |       | 008    | Camden                           |            |       | 015  |
|                        |       | 017    | Gloucester                       |            |       | 033  |
|                        | 39    |        | Salem                            |            | 42    |      |
|                        |       | 009    | Pennsylvania                     |            |       | 017  |
|                        |       | 015    | Bucks                            |            |       | 029  |
|                        |       | 023    | Chester                          |            |       | 045  |
|                        |       | 046    | Delaware                         |            |       | 091  |
|                        |       | 051    | Montgomery                       |            |       | 101  |
|                        |       |        | Philadelphia                     |            |       |      |
| 215                    | 03    |        | Phoenix-Mesa, AZ, MSA            | 6200       | 04    |      |
|                        |       | 008    | Arizona                          |            |       | 013  |
|                        |       | 012    | Maricopa                         |            |       | 021  |
|                        |       |        | Pinal                            |            |       |      |
| 216                    | 04    |        | Pine Bluff, AR, MSA              | 6240       | 05    |      |
|                        |       | 035    | Arkansas                         |            |       | 069  |
|                        |       |        | Jefferson                        |            |       |      |
| 217                    | 39    |        | Pittsburgh, PA, MSA              | 6280       | 42    |      |
|                        |       | 002    | Pennsylvania                     |            |       | 003  |
|                        |       | 004    | Allegheny                        |            |       | 007  |
|                        |       | 010    | Beaver                           |            |       | 019  |
|                        |       | 026    | Butler                           |            |       | 051  |
|                        |       | 063    | Fayette                          |            |       | 125  |
|                        |       | 065    | Washington                       |            |       | 129  |
|                        |       |        | Westmoreland                     |            |       |      |
| 218                    | 22    |        | Pittsfield, MA, NECMA            | 6323       | 25    |      |
|                        |       | 002    | Massachusetts                    |            |       | 003  |
|                        |       |        | Berkshire                        |            |       |      |
| 219                    | 20    |        | Portland, ME, NECMA              | 6403       | 23    |      |
|                        |       | 003    | Maine                            |            |       | 005  |
|                        |       |        | Cumberland                       |            |       |      |

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| P/MSA                  | State | County | P/MSA Name and County Components        |  | P/MSA | State | Cnty |
| 220                    | 38    |        | Portland-Vancouver, OR-WA, PMSA         |  | 6440  | 41    |      |
|                        |       | 003    | Oregon                                  |  |       |       | 005  |
|                        |       | 005    | Clackamas                               |  |       |       | 009  |
|                        |       | 026    | Columbia                                |  |       |       | 051  |
|                        |       | 034    | Multnomah                               |  |       |       | 067  |
|                        |       | 036    | Washington                              |  |       |       | 071  |
|                        | 48    |        | Yamhill                                 |  |       | 53    |      |
|                        |       | 006    | Washington                              |  |       |       | 011  |
|                        |       |        | Clark                                   |  |       |       |      |
| 221                    | 40    |        | Providence-Warwick-Pawtucket, RI, NECMA |  | 6483  | 44    |      |
|                        |       | 001    | Rhode Island                            |  |       |       | 001  |
|                        |       | 002    | Bristol                                 |  |       |       | 003  |
|                        |       | 004    | Kent                                    |  |       |       | 007  |
|                        |       | 005    | Providence                              |  |       |       | 009  |
|                        |       |        | Washington                              |  |       |       |      |
| 222                    | 45    |        | Provo-Orem, UT, MSA                     |  | 6520  | 49    |      |
|                        |       | 025    | Utah                                    |  |       |       | 049  |
|                        |       |        | Utah                                    |  |       |       |      |
| 223                    | 06    |        | Pueblo, CO, MSA                         |  | 6560  | 08    |      |
|                        |       | 051    | Colorado                                |  |       |       | 101  |
|                        |       |        | Pueblo                                  |  |       |       |      |
| 224                    | 10    |        | Punta Gorda, FL, MSA                    |  | 6580  | 12    |      |
|                        |       | 008    | Florida                                 |  |       |       | 015  |
|                        |       |        | Charlotte                               |  |       |       |      |
| 225                    | 50    |        | Racine, WI, PMSA                        |  | 6600  | 55    |      |
|                        |       | 052    | Wisconsin                               |  |       |       | 101  |
|                        |       |        | Racine                                  |  |       |       |      |
| 226                    | 34    |        | Raleigh-Durham-Chapel Hill, NC, MSA     |  | 6640  | 37    |      |
|                        |       | 019    | North Carolina                          |  |       |       | 037  |
|                        |       | 032    | Chatham                                 |  |       |       | 063  |
|                        |       | 035    | Durham                                  |  |       |       | 069  |
|                        |       | 051    | Franklin                                |  |       |       | 101  |
|                        |       | 068    | Johnston                                |  |       |       | 135  |
|                        |       | 092    | Orange                                  |  |       |       | 183  |
|                        |       |        | Wake                                    |  |       |       |      |
| 227                    | 42    |        | Rapid City, SD, MSA                     |  | 6660  | 46    |      |
|                        |       | 051    | South Dakota                            |  |       |       | 103  |
|                        |       |        | Pennington                              |  |       |       |      |
| 228                    | 39    |        | Reading, PA, MSA                        |  | 6680  | 42    |      |
|                        |       | 006    | Pennsylvania                            |  |       |       | 011  |
|                        |       |        | Berks                                   |  |       |       |      |
| 229                    | 05    |        | Redding, CA, MSA                        |  | 6690  | 06    |      |
|                        |       | 045    | California                              |  |       |       | 089  |
|                        |       |        | Shasta                                  |  |       |       |      |
| 230                    | 29    |        | Reno, NV, MSA                           |  | 6720  | 32    |      |
|                        |       | 016    | Nevada                                  |  |       |       | 031  |
|                        |       |        | Washoe                                  |  |       |       |      |
| 231                    | 48    |        | Richland-Kennewick-Pasco, WA, MSA       |  | 6740  | 53    |      |
|                        |       | 003    | Washington                              |  |       |       | 005  |
|                        |       | 011    | Benton                                  |  |       |       | 021  |
|                        |       |        | Franklin                                |  |       |       |      |

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| P/MSA                  | State | County | P/MSA Name and County Components   | P/MSA | State | Cnty |
| 232                    | 47    |        | Richmond-Petersburg, VA, MSA       | 6760  | 51    |      |
|                        |       |        | Virginia                           |       |       |      |
|                        |       | 023    | Charles City                       |       |       | 036  |
|                        |       | 027    | Chesterfield                       |       |       | 041  |
|                        |       | 030    | Colonial Heights city              |       |       | 570  |
|                        |       | 037    | Dinwiddie                          |       |       | 053  |
|                        |       | 053    | Goochland                          |       |       | 075  |
|                        |       | 059    | Hanover                            |       |       | 085  |
|                        |       | 061    | Henrico                            |       |       | 087  |
|                        |       | 064    | Hopewell city                      |       |       | 670  |
|                        |       | 086    | New Kent                           |       |       | 127  |
|                        |       | 096    | Petersburg city                    |       |       | 730  |
|                        |       | 100    | Powhatan                           |       |       | 145  |
|                        |       | 102    | Prince George                      |       |       | 149  |
|                        |       | 108    | Richmond city                      |       |       | 760  |
| 233                    | 05    |        | Riverside-San Bernardino, CA, PMSA | 6780  | 06    |      |
|                        |       |        | California                         |       |       |      |
|                        |       | 033    | Riverside                          |       |       | 065  |
|                        |       | 036    | San Bernardino                     |       |       | 071  |
| 234                    | 47    |        | Roanoke, VA, MSA                   | 6800  | 51    |      |
|                        |       |        | Virginia                           |       |       |      |
|                        |       | 014    | Botetourt                          |       |       | 023  |
|                        |       | 109    | Roanoke                            |       |       | 161  |
|                        |       | 110    | Roanoke city                       |       |       | 770  |
|                        |       | 114    | Salem city                         |       |       | 775  |
| 235                    | 24    |        | Rochester, MN, MSA                 | 6820  | 27    |      |
|                        |       |        | Minnesota                          |       |       |      |
|                        |       | 055    | Olmsted                            |       |       | 109  |
| 236                    | 33    |        | Rochester, NY, MSA                 | 6840  | 36    |      |
|                        |       |        | New York                           |       |       |      |
|                        |       | 018    | Genesee                            |       |       | 037  |
|                        |       | 024    | Livingston                         |       |       | 051  |
|                        |       | 026    | Monroe                             |       |       | 055  |
|                        |       | 033    | Ontario                            |       |       | 069  |
|                        |       | 035    | Orleans                            |       |       | 073  |
|                        |       | 055    | Wayne                              |       |       | 117  |
| 237                    | 14    |        | Rockford, IL, MSA                  | 6880  | 17    |      |
|                        |       |        | Illinois                           |       |       |      |
|                        |       | 004    | Boone                              |       |       | 007  |
|                        |       | 071    | Ogle                               |       |       | 141  |
|                        |       | 101    | Winnebago                          |       |       | 201  |
| 238                    | 34    |        | Rocky Mount, NC, MSA               | 6895  | 37    |      |
|                        |       |        | North Carolina                     |       |       |      |
|                        |       | 033    | Edgecombe                          |       |       | 065  |
|                        |       | 064    | Nash                               |       |       | 127  |
| 239                    | 05    |        | Sacramento, CA, PMSA               | 6920  | 06    |      |
|                        |       |        | California                         |       |       |      |
|                        |       | 009    | El Dorado                          |       |       | 017  |
|                        |       | 031    | Placer                             |       |       | 061  |
|                        |       | 034    | Sacramento                         |       |       | 067  |
| 240                    | 23    |        | Saginaw-Bay City-Midland, MI, MSA  | 6960  | 26    |      |
|                        |       |        | Michigan                           |       |       |      |
|                        |       | 009    | Bay                                |       |       | 017  |
|                        |       | 056    | Midland                            |       |       | 111  |
|                        |       | 073    | Saginaw                            |       |       | 145  |
| 241                    | 24    |        | St. Cloud, MN, MSA                 | 6980  | 27    |      |
|                        |       |        | Minnesota                          |       |       |      |
|                        |       | 005    | Benton                             |       |       | 009  |
|                        |       | 073    | Stearns                            |       |       | 145  |
| 242                    | 26    |        | St. Joseph, MO, MSA                | 7000  | 29    |      |
|                        |       |        | Missouri                           |       |       |      |
|                        |       | 002    | Andrew                             |       |       | 003  |
|                        |       | 011    | Buchanan                           |       |       | 021  |

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| P/MSA                  | State | County | P/MSA Name and County Components                |  | P/MSA      | State | Cnty |
| 243                    | 14    |        | St. Louis, MO-IL, MSA                           |  | 7040       | 17    |      |
|                        |       | 014    | Illinois  |  |            |       | 027  |
|                        |       | 042    | Clinton   |  |            |       | 083  |
|                        |       | 060    | Jersey  |  |            |       | 119  |
|                        |       | 067    | Madison   |  |            |       | 133  |
|                        |       | 082    | Monroe  |  |            |       | 163  |
|                        | 26    |        | St. Clair                                       |  |            | 29    |      |
|                        |       |        | Missouri  |  |            |       |      |
|                        |       | 036    | Franklin  |  |            |       | 071  |
|                        |       | 050    | Jefferson                                       |  |            |       | 099  |
|                        |       | 057    | Lincoln   |  |            |       | 113  |
|                        |       | 092    | St. Charles                                     |  |            |       | 183  |
|                        |       | 095    | St. Louis                                       |  |            |       | 189  |
|                        |       | 096    | St. Louis city                                  |  |            |       | 510  |
|                        |       | 110    | Warren  |  |            |       | 219  |
| 244                    | 38    |        | Salem, OR, PMSA                                 |  | 7080       | 41    |      |
|                        |       |        | Oregon  |  |            |       |      |
|                        |       | 024    | Marion  |  |            |       | 047  |
|                        |       | 027    | Polk  |  |            |       | 053  |
| 245                    | 05    |        | Salinas, CA, MSA                                |  | 7120       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 027    | Monterey  |  |            |       | 053  |
| 246                    | 45    |        | Salt Lake City-Ogden, UT, MSA                   |  | 7160       | 49    |      |
|                        |       |        | Utah  |  |            |       |      |
|                        |       | 006    | Davis   |  |            |       | 011  |
|                        |       | 018    | Salt Lake                                       |  |            |       | 035  |
|                        |       | 029    | Weber   |  |            |       | 057  |
| 247                    | 44    |        | San Angelo, TX, MSA                             |  | 7200       | 48    |      |
|                        |       |        | Texas   |  |            |       |      |
|                        |       | 226    | Tom Green                                       |  |            |       | 451  |
| 248                    | 44    |        | San Antonio, TX, MSA                            |  | 7240       | 48    |      |
|                        |       |        | Texas   |  |            |       |      |
|                        |       | 015    | Bexar   |  |            |       | 029  |
|                        |       | 046    | Comal   |  |            |       | 091  |
|                        |       | 094    | Guadalupe                                       |  |            |       | 187  |
|                        |       | 247    | Wilson  |  |            |       | 493  |
| 249                    | 05    |        | San Diego, CA, MSA                              |  | 7320       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 037    | San Diego                                       |  |            |       | 073  |
| 250                    | 05    |        | San Francisco, CA, PMSA                         |  | 7360       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 021    | Marin   |  |            |       | 041  |
|                        |       | 038    | San Francisco                                   |  |            |       | 075  |
|                        |       | 041    | San Mateo                                       |  |            |       | 081  |
| 251                    | 05    |        | San Jose, CA, PMSA                              |  | 7400       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 043    | Santa Clara                                     |  |            |       | 085  |
| 252                    | 05    |        | San Luis Obispo-Atascadero-Paso Robles, CA, MSA |  | 7460       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 040    | San Luis Obispo                                 |  |            |       | 079  |
| 253                    | 05    |        | Santa Barbara-Santa Maria-Lompoc, CA, MSA       |  | 7480       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 042    | Santa Barbara                                   |  |            |       | 083  |
| 254                    | 05    |        | Santa Cruz-Watsonville, CA, PMSA                |  | 7485       | 06    |      |
|                        |       |        | California                                      |  |            |       |      |
|                        |       | 044    | Santa Cruz                                      |  |            |       | 087  |
| 255                    | 32    |        | Santa Fe, NM, MSA                               |  | 7490       | 35    |      |
|                        |       |        | New Mexico                                      |  |            |       |      |
|                        |       | 016    | Los Alamos                                      |  |            |       | 028  |
|                        |       | 027    | Santa Fe  |  |            |       | 049  |

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| P/MSA                  | State | County                   | P/MSA Name and County Components  |  | P/MSA      | State | Cnty                     |
| 256                    | 05    | 049                      | Santa Rosa, CA, PMSA<br>California<br>Sonoma  |  | 7500       | 06    | 097                      |
| 257                    | 10    | 041<br>058               | Sarasota-Bradenton, FL, MSA<br>Florida<br>Manatee<br>Sarasota   |  | 7510       | 12    | 081<br>115               |
| 258                    | 11    | 015<br>025<br>051        | Savannah, GA, MSA<br>Georgia<br>Bryan<br>Chatham<br>Effingham   |  | 7520       | 13    | 029<br>051<br>103        |
| 259                    | 39    | 019<br>035<br>040<br>066 | Scranton--Wilkes-Barre--Hazleton, PA, MSA<br>Pennsylvania<br>Columbia<br>Lackawanna<br>Luzerne<br>Wyoming |  | 7560       | 42    | 037<br>069<br>079<br>131 |
| 260                    | 48    | 015<br>017<br>031        | Seattle-Bellevue-Everett, WA, PMSA<br>Washington<br>Island<br>King<br>Snohomish                           |  | 7600       | 53    | 029<br>033<br>061        |
| 261                    | 39    | 043                      | Sharon, PA, MSA<br>Pennsylvania<br>Mercer   |  | 7610       | 42    | 085                      |
| 262                    | 50    | 060                      | Sheboygan, WI, MSA<br>Wisconsin<br>Sheboygan  |  | 7620       | 55    | 117                      |
| 263                    | 44    | 091                      | Sherman-Denison, TX, MSA<br>Texas<br>Grayson  |  | 7640       | 48    | 181                      |
| 264                    | 19    | 008<br>009<br>060        | Shreveport-Bossier City, LA, MSA<br>Louisiana<br>Bossier<br>Caddo<br>Webster                              |  | 7680       | 22    | 015<br>017<br>119        |
| 265                    | 16    | 097                      | Sioux City, IA-NE, MSA<br>Iowa<br>Woodbury  |  | 7720       | 19    | 193                      |
|                        | 28    | 022                      | Nebraska<br>Dakota  |  |            | 31    | 043                      |
| 266                    | 42    | 041<br>049               | Sioux Falls, SD, MSA<br>South Dakota<br>Lincoln<br>Minnehaha  |  | 7760       | 46    | 083<br>099               |
| 267                    | 15    | 071                      | South Bend, IN, MSA<br>Indiana<br>St. Joseph  |  | 7800       | 18    | 141                      |
| 268                    | 48    | 032                      | Spokane, WA, MSA<br>Washington<br>Spokane   |  | 7840       | 53    | 063                      |
| 269                    | 14    | 065<br>084               | Springfield, IL, MSA<br>Illinois<br>Menard<br>Sangamon  |  | 7880       | 17    | 129<br>167               |

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| P/MSA                  | State | County | P/MSA Name and County Components         | P/MSA | State Cnty |
| 270                    | 26    |        | Springfield, MO, MSA                     | 7920  |            |
|                        |       | 022    | Missouri                                 |       | 29         |
|                        |       | 039    | Christian                                |       | 043        |
|                        |       | 113    | Greene                                   |       | 077        |
|                        |       |        | Webster                                  |       | 225        |
| 271                    | 22    |        | Springfield, MA, NECMA                   | 8003  |            |
|                        |       | 007    | Massachusetts                            |       | 25         |
|                        |       | 008    | Hampden                                  |       | 013        |
|                        |       |        | Hampshire                                |       | 015        |
| 272                    | 39    |        | State College, PA, MSA                   | 8050  |            |
|                        |       | 014    | Pennsylvania                             |       | 42         |
|                        |       |        | Centre                                   |       | 027        |
| 273                    | 36    |        | Steubenville-Weirton, OH-WV, MSA         | 8080  |            |
|                        |       | 041    | Ohio                                     |       | 39         |
|                        |       | 49     | Jefferson                                |       | 081        |
|                        |       |        | West Virginia                            |       | 54         |
|                        |       | 005    | Brooke                                   |       | 009        |
|                        |       | 015    | Hancock                                  |       | 029        |
| 274                    | 05    |        | Stockton-Lodi, CA, MSA                   | 8120  |            |
|                        |       | 039    | California                               |       | 06         |
|                        |       |        | San Joaquin                              |       | 077        |
| 275                    | 41    |        | Sumter, SC, MSA                          | 8140  |            |
|                        |       | 043    | South Carolina                           |       | 45         |
|                        |       |        | Sumter                                   |       | 085        |
| 276                    | 33    |        | Syracuse, NY, MSA                        | 8160  |            |
|                        |       | 005    | New York                                 |       | 36         |
|                        |       | 025    | Cayuga                                   |       | 011        |
|                        |       | 032    | Madison                                  |       | 053        |
|                        |       | 036    | Onondaga                                 |       | 067        |
|                        |       |        | Oswego                                   |       | 075        |
| 277                    | 48    |        | Tacoma, WA, PMSA                         | 8200  |            |
|                        |       | 027    | Washington                               |       | 53         |
|                        |       |        | Pierce                                   |       | 053        |
| 278                    | 10    |        | Tallahassee, FL, MSA                     | 8240  |            |
|                        |       | 020    | Florida                                  |       | 12         |
|                        |       | 037    | Gadsden                                  |       | 039        |
|                        |       |        | Leon                                     |       | 073        |
| 279                    | 10    |        | Tampa-St. Petersburg-Clearwater, FL, MSA | 8280  |            |
|                        |       | 027    | Florida                                  |       | 12         |
|                        |       | 029    | Hernando                                 |       | 053        |
|                        |       | 051    | Hillsborough                             |       | 057        |
|                        |       | 052    | Pasco                                    |       | 101        |
|                        |       |        | Pinellas                                 |       | 103        |
| 280                    | 15    |        | Terre Haute, IN, MSA                     | 8320  |            |
|                        |       | 011    | Indiana                                  |       | 18         |
|                        |       | 083    | Clay                                     |       | 021        |
|                        |       | 084    | Vermillion                               |       | 165        |
|                        |       |        | Vigo                                     |       | 167        |
| 281                    | 04    |        | Texarkana, TX-Texarkana, AR, MSA         | 8360  |            |
|                        |       | 046    | Arkansas                                 |       | 05         |
|                        |       | 44     | Miller                                   |       | 091        |
|                        |       | 019    | Texas                                    |       | 48         |
|                        |       |        | Bowie                                    |       | 037        |
| 282                    | 36    |        | Toledo, OH, MSA                          | 8400  |            |
|                        |       | 026    | Ohio                                     |       | 39         |
|                        |       | 048    | Fulton                                   |       | 051        |
|                        |       | 087    | Lucas                                    |       | 095        |
|                        |       |        | Wood                                     |       | 173        |
| 283                    | 17    |        | Topeka, KS, MSA                          | 8440  |            |
|                        |       | 089    | Kansas                                   |       | 20         |
|                        |       |        | Shawnee                                  |       | 177        |

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|------------------------|-------|---------------------------------|--|------------|-------|---------------------------------|
| P/MSA                  | State | County                          |  | P/MSA      | State | Cnty                            |
| 284                    | 31    | 011                             | Trenton, NJ, PMSA<br>New Jersey<br>Mercer                                  | 8480       | 34    | 021                             |
| 285                    | 03    | 011                             | Tucson, AZ, MSA<br>Arizona<br>Pima   | 8520       | 04    | 019                             |
| 286                    | 37    | 019<br>057<br>066<br>072<br>073 | Tulsa, OK, MSA<br>Oklahoma<br>Creek<br>Osage<br>Rogers<br>Tulsa<br>Wagoner | 8560       | 40    | 037<br>113<br>131<br>143<br>145 |
| 287                    | 01    | 063                             | Tuscaloosa, AL, MSA<br>Alabama<br>Tuscaloosa                               | 8600       | 01    | 125                             |
| 288                    | 44    | 212                             | Tyler, TX, MSA<br>Texas<br>Smith   | 8640       | 48    | 423                             |
| 289                    | 33    | 021<br>031                      | Utica-Rome, NY, MSA<br>New York<br>Herkimer<br>Oneida                      | 8680       | 36    | 043<br>065                      |
| 290                    | 05    | 028<br>048                      | Vallejo-Fairfield-Napa, CA, PMSA<br>California<br>Napa<br>Solano           | 8720       | 06    | 055<br>095                      |
| 291                    | 05    | 056                             | Ventura, CA, PMSA<br>California<br>Ventura                                 | 8735       | 06    | 111                             |
| 292                    | 44    | 235                             | Victoria, TX, MSA<br>Texas<br>Victoria                                     | 8750       | 48    | 469                             |
| 293                    | 31    | 006                             | Vineland-Millville-Bridgeton, NJ, PMSA<br>New Jersey<br>Cumberland         | 8760       | 34    | 011                             |
| 294                    | 05    | 054                             | Visalia-Tulare-Porterville, CA, MSA<br>California<br>Tulare                | 8780       | 06    | 107                             |
| 295                    | 44    | 155                             | Waco, TX, MSA<br>Texas<br>McLennan   | 8800       | 48    | 309                             |

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|------------------------|-------|--------|-------------------------------------|------------|-------|------|
| P/MSA                  | State | County |                                     | P/MSA      | State | Cnty |
| 296                    |       |        | Washington, DC-MD-VA-WV, PMSA       | 8840       |       |      |
|                        | 09    |        | Dist. of Columbia                   |            | 11    |      |
|                        |       | 001    | District of Columbia                |            |       | 001  |
|                        | 21    |        | Maryland                            |            | 24    |      |
|                        |       | 005    | Calvert                             |            |       | 009  |
|                        |       | 009    | Charles                             |            |       | 017  |
|                        |       | 011    | Frederick                           |            |       | 021  |
|                        |       | 016    | Montgomery                          |            |       | 031  |
|                        |       | 017    | Prince George's                     |            |       | 033  |
|                        | 47    |        | Virginia                            |            | 51    |      |
|                        |       | 003    | Alexandria city                     |            |       | 510  |
|                        |       | 008    | Arlington                           |            |       | 013  |
|                        |       | 028    | Clarke                              |            |       | 043  |
|                        |       | 033    | Culpeper                            |            |       | 047  |
|                        |       | 040    | Fairfax                             |            |       | 059  |
|                        |       | 041    | Fairfax city                        |            |       | 600  |
|                        |       | 042    | Falls Church city                   |            |       | 610  |
|                        |       | 043    | Fauquier                            |            |       | 061  |
|                        |       | 049    | Fredericksburg city                 |            |       | 630  |
|                        |       | 068    | King George                         |            |       | 099  |
|                        |       | 073    | Loudoun                             |            |       | 107  |
|                        |       | 078    | Manassas city                       |            |       | 683  |
|                        |       | 079    | Manassas Park city                  |            |       | 685  |
|                        |       | 103    | Prince William                      |            |       | 153  |
|                        |       | 120    | Spotsylvania                        |            |       | 177  |
|                        |       | 121    | Stafford                            |            |       | 179  |
|                        |       | 128    | Warren                              |            |       | 187  |
|                        | 49    |        | West Virginia                       |            | 54    |      |
|                        |       | 002    | Berkeley                            |            |       | 003  |
|                        |       | 019    | Jefferson                           |            |       | 037  |
| 297                    |       |        | Waterloo-Cedar Falls, IA, MSA       | 8920       |       |      |
|                        | 16    |        | Iowa                                |            | 19    |      |
|                        |       | 007    | Black Hawk                          |            |       | 013  |
| 298                    |       |        | Wausau, WI, MSA                     | 8940       |       |      |
|                        | 50    |        | Wisconsin                           |            | 55    |      |
|                        |       | 037    | Marathon                            |            |       | 073  |
| 299                    |       |        | West Palm Beach-Boca Raton, FL, MSA | 8960       |       |      |
|                        | 10    |        | Florida                             |            | 12    |      |
|                        |       | 050    | Palm Beach                          |            |       | 099  |
| 300                    |       |        | Wheeling, WV-OH, MSA                | 9000       |       |      |
|                        | 36    |        | Ohio                                |            | 39    |      |
|                        |       | 007    | Belmont                             |            |       | 013  |
|                        | 49    |        | West Virginia                       |            | 54    |      |
|                        |       | 026    | Marshall                            |            |       | 051  |
|                        |       | 035    | Ohio                                |            |       | 069  |
| 301                    |       |        | Wichita, KS, MSA                    | 9040       |       |      |
|                        | 17    |        | Kansas                              |            | 20    |      |
|                        |       | 008    | Butler                              |            |       | 015  |
|                        |       | 040    | Harvey                              |            |       | 079  |
|                        |       | 087    | Sedgwick                            |            |       | 173  |
| 302                    |       |        | Wichita Falls, TX, MSA              | 9080       |       |      |
|                        | 44    |        | Texas                               |            | 48    |      |
|                        |       | 005    | Archer                              |            |       | 009  |
|                        |       | 243    | Wichita                             |            |       | 485  |
| 303                    |       |        | Williamsport, PA, MSA               | 9140       |       |      |
|                        | 39    |        | Pennsylvania                        |            | 42    |      |
|                        |       | 041    | Lycoming                            |            |       | 081  |
| 304                    |       |        | Wilmington-Newark, DE-MD, PMSA      | 9160       |       |      |
|                        | 08    |        | Delaware                            |            | 10    |      |
|                        |       | 002    | New Castle                          |            |       | 003  |
|                        | 21    |        | Maryland                            |            | 24    |      |
|                        |       | 008    | Cecil                               |            |       | 015  |

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| P/MSA                  | State | County            |  | P/MSA      | State | Cnty              |
| 305                    | 34    | 010<br>065        | Wilmington, NC, MSA<br>North Carolina<br>Brunswick<br>New Hanover        | 9200       | 37    | 019<br>129        |
| 306                    | 48    | 039               | Yakima, WA, MSA<br>Washington<br>Yakima                                  | 9260       | 53    | 077               |
| 307                    | 05    | 057               | Yolo, CA, PMSA<br>California<br>Yolo                                     | 9270       | 06    | 113               |
| 308                    | 39    | 067               | York, PA, MSA<br>Pennsylvania<br>York                                    | 9280       | 42    | 133               |
| 309                    | 36    | 015<br>050<br>078 | Youngstown-Warren, OH, MSA<br>Ohio<br>Columbiana<br>Mahoning<br>Trumbull | 9320       | 39    | 029<br>099<br>155 |
| 310                    | 05    | 051<br>058        | Yuba City, CA, MSA<br>California<br>Sutter<br>Yuba                       | 9340       | 06    | 101<br>115        |
| 311                    | 03    | 015               | Yuma, AZ, MSA<br>Arizona<br>Yuma   | 9360       | 04    | 027               |

**TECHNICAL APPENDIX FROM**

**VITAL STATISTICS OF  
THE UNITED STATES**

**2001**

**NATALITY**

**U.S. DEPARTMENT OF  
HEALTH AND HUMAN SERVICES**

**CENTERS FOR DISEASE CONTROL AND PREVENTION  
NATIONAL CENTER FOR HEALTH STATISTICS**

Hyattsville, Maryland: Revised February 2003

**VITAL STATISTICS OF THE UNITED STATES, 2001 VOLUME 1, NATALITY  
TECHNICAL APPENDIX**

**NOTE**

**This report has been updated to include information on newly available populations based on the 2000 census, and newly revised population-based birth and fertility rates. Please see sections on “Random variation and significance testing for natality data” and “Population bases.”**

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## **Introduction**

This report, published by the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS), is an updated and abridged version of the 1999 Technical Appendix and focuses on information for the 2001 data file (1). This Appendix is also included in *Vital Statistics of the United States, 2001, Volume I, Natality* (in preparation). Reference will be made to the 1999 Technical Appendix for historical discussion of the variables, definitions, quality, and completeness of the birth data (2). This report supplements the Technical notes section of "Births: Final Data for 2001" (3) and is recommended for use with the public-use file for 2001 births, available on CD-ROM from NCHS, and the tabulated data of *Vital Statistics of the United States, 2001, Volume I, Natality* (in preparation).

## **Definition of Live Birth**

Every product of conception that gives a sign of life after birth, regardless of the length of the pregnancy, is considered a live birth. This concept is included in the definition set forth by the World Health Organization in 1950 and revised in 1988 by a working group formed by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists (4, 5, 6):

Live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered liveborn.

This definition distinguishes in precise terms a live birth from a fetal death (see section on fetal deaths in the Technical Appendix of volume II, *Vital Statistics of the United States*). In the interest of comparable natality statistics, both the Statistical Commission of the United Nations and CDC's NCHS have adopted this definition (7, 8).

## **History of Birth-Registration Area**

Currently the birth-registration system of the United States covers the 50 States, the District of Columbia, the independent registration area of New York City and Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands (referred to as Northern Marianas). However, in the statistical tabulations, "United States" refers only to the aggregate of the 50 States (including New York City) and the District of Columbia. Information on the history and development of the birth-registration area is available elsewhere (2).

## Sources of Data

### Nativity statistics

Since 1985 natality statistics for all States and the District of Columbia have been based on information from the total file of records. The information is received on electronic files of individual records processed by the States and provided to NCHS through the Vital Statistics Cooperative Program. NCHS receives these files from the registration offices of all States, the District of Columbia, and New York City. Information for Puerto Rico and the Virgin Islands is also received through the Vital Statistics Cooperative Program. Information for Guam, American Samoa, and the Northern Marianas is obtained from microfilm copies of original birth certificates and is based on the total file of records for all years. (Data from American Samoa first became available in 1997 and from the Northern Marianas in 1998.)

U.S. natality data are limited to births occurring within the United States, including those occurring to U.S. residents and nonresidents. Births to nonresidents of the United States have been excluded from all tabulations by place of residence beginning in 1970 (for further discussion see "Classification by occurrence and residence"). Births occurring to U.S. citizens outside the United States are not included in any tabulation in this report. Data for Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas are limited to births registered in these areas.

### Standard certificate of live birth

The U.S. Standard Certificate of Live Birth, issued by the Public Health Service, has served for many years as the principal means of attaining uniformity in the content of the documents used to collect information on births in the United States. It has been modified in each State to the extent required by the particular State's needs or by special provisions of the State's vital statistics law. However, most State certificates conform closely in content to the standard certificate.

*1989 revision*—Effective January 1, 1989, a revised U.S. Standard Certificate of Live Birth (figure 4–A) replaced the 1978 revision. This revision provided a wide variety of new information on maternal and infant health characteristics, representing a significant departure from previous versions in both content and format. The most significant format change was the use of checkboxes to obtain detailed medical and health information about the mother and child. Details of the nature and content of the 1989 revision are available elsewhere (2).

## Classification of Data

One of the principal values of vital statistics data is realized through the presentation of rates computed by relating the vital events of a class to the population of a similarly defined class. Vital statistics and population statistics, therefore, must be classified according to similarly defined systems and tabulated in comparable groups. Even when the variables common to both (such as geographic area, age, race, and sex) have been similarly classified and tabulated, significant discrepancies may result from the differences between methods used to obtain the data: population data are obtained by enumeration while vital statistics data are obtained via registration.

The general rules used to classify geographic and personal items for live births are set forth in “Vital Statistics Classification and Coding Instructions for Live Birth Records, 1999–2001,” *NCHS Instruction Manual*, Part 3a (9). This material is incorporated in the basic file layout on the CD-ROM (1). The instruction materials are for States to use in coding the data items; they do not include any NCHS recodes. The file layout is a better source of information on the code structure since it provides the exact codes and recodes that are available.

The classification of certain important items is discussed in the following pages. Information on the completeness of reporting of birth certificate data is shown in table A, which presents a listing of items and the percent of records that were not stated for each State, Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas.

### **Classification by occurrence and residence**

In tabulations by place of residence, births occurring within the United States to U.S. citizens and to resident aliens are allocated to the usual place of residence of the mother in the United States, as reported on the birth certificate. Beginning in 1970, births to nonresidents of the United States occurring in the United States are excluded from these tabulations. Births to U.S. residents occurring outside this country are excluded from place of residence tabulations.

The total count of births for the United States by place of residence and by place of occurrence will not be identical. Births to nonresidents of the United States are included in data by place of occurrence but excluded from data by place of residence, as previously indicated. See table B for the number of births by residence and occurrence for the 50 States and the District of Columbia for 2001.

*Residence error*—A nationwide test of birth-registration completeness in 1950 provided measures of residence error for natality statistics. According to the 1950 test (which has not been repeated), errors in residence reporting for the country as a whole tend to overstate the number of births to residents of urban areas and to understate the number of births to residents of other areas (10). Recent experience demonstrates that this is still a concern based on anecdotal evidence from the States. This tendency has assumed special importance because of a concomitant development—the increased utilization of hospitals in cities by residents of nearby places—with the result that a number of births are erroneously reported as having occurred to residents of urban areas. Another factor that contributes to this overstatement of urban births is the customary practice of using city addresses for persons living outside the city limits. Residence error should be taken into consideration in interpreting data for small areas and for cities. Both birth and infant mortality patterns can be affected.

*Incomplete residence*—Beginning in 1973, in cases where only the State of residence is reported with no city or county specified and the State named is different from the State of occurrence, the birth is allocated to the largest city of the State of residence. Before 1973, such births were allocated to the exact place of occurrence.

### **Geographic classification**

The rules followed in the classification of geographic areas for live births are contained in the instruction manual mentioned previously. The geographic code structure itself for 2001 is given in another manual, “Vital Records Geographic Classification, 1995,” *NCHS Instruction Manual*, Part 8, which is included with the documentation file on CD-ROM (1). The geographic code structure in 2001 is based on results of the 1990 Census of Population.

*United States*—In the statistical tabulations, “United States” refers only to the aggregate of the 50 States and the District of Columbia. Alaska has been included in the U.S. tabulations since 1959 and Hawaii since 1960.

Details of the classification of births for metropolitan statistical areas, metropolitan and nonmetropolitan counties, and population size groups for cities and urban places are presented elsewhere (2).

Places with a population of less than 100,000 are not separately identified on the public-use file because of confidentiality limitations.

### **Race or national origin**

Beginning with the 1989 data year, birth data are tabulated primarily by race of mother. The criteria for reporting the race of the parents did not change in 1989, and it continues to reflect the response of the informant (usually the mother). The factors influencing the decision to tabulate births by race of the mother have been discussed in detail elsewhere (2, 11). Information on tabulation procedures for data by race prior to 1989 is presented elsewhere (2).

Beginning with the 1992 issue of *Vital Statistics of the United States, Volume I, Natality*, trend data for years beginning with 1980 have been retabulated by race of mother. The change in the tabulation of births by race presents some problems when analyzing birth data by race, particularly trend data. The problem is likely to be acute for races other than white and black.

The categories for race or national origin are “White,” “Black,” “American Indian” (including Aleuts and Eskimos), “Chinese,” “Japanese,” “Hawaiian,” “Filipino,” and “Other Asian or Pacific Islander” (including Asian Indian). Before 1992, there was also an “other” category, which is now combined with the “not stated” category. Before 1978, the category “Other Asian or Pacific Islander” was not identified separately but included with “other” races. The separation of this category from “other” allows identification of the “Asian or Pacific Islander” category by combining the new category “Other Asian or Pacific Islander” with Chinese, Japanese, Hawaiian, and Filipino.

Since 1992, States with the largest Asian or Pacific Islander (API) populations have provided NCHS with data for additional API subgroups. The API subgroups include Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and other. In 2001, 11 States were included in this reporting area: California, Hawaii, Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, Washington, and West Virginia. At least two-thirds of the U.S. population of each of these additional API groups lived in the 11-State reporting area (12). The data are available on the detailed natality tapes and CD-ROMs beginning with the 1992 data year. An analytic report based on the 1992 data year is also available upon request (13).

If the race or national origin of an Asian parent is ill-defined or not clearly identifiable with one of the categories used in the classification (for example, if “Oriental” is entered), an attempt is made to determine the specific race or national origin from the place of birth entry. If the birthplace is China, Japan, or the Philippines, the race of the parent is assigned to that category. When race cannot be determined from birthplace, it is assigned to the “Other Asian or Pacific Islander” category.

Hispanic origin and race are reported independently on the birth certificate. Data for Hispanic subgroups are shown, in most cases, for five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other (and unknown) Hispanic. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group

according to the mother's reported race. The "White" category comprises births reported as white and births where race, as distinguished from Hispanic origin, is reported as Hispanic. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin are not further classified by race because the vast majority of births to Hispanic women are reported as white (98 percent in 2001). In these tabulations, data for non-Hispanic persons are classified according to the race of the mother because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women. A recode variable is available that provides cross tabulations of race by Hispanic origin.

*Race or national origin not stated*—If the race of the mother is not defined or not identifiable with one of the categories used in the classification (0.4 percent of births in 2001) and the race of the father is known, the race of the father is assigned to the mother. Where information for both parents is missing, the race of the mother is allocated electronically according to the specific race of the mother on the preceding record with a known race of mother. Data for both parents were missing for only 0.3 percent of birth certificates for 2001.

Nearly all statistics by race or national origin for the United States as a whole in 1962 and 1963 are affected by a lack of information for New Jersey, which did not report the race of the parents in those years. Birth rates by race for those years are computed on a population base that excluded New Jersey. For the method of estimating the U.S. population by age, sex, and race excluding New Jersey in 1962 and 1963, see page 4–8 in the Technical Appendix of volume I, *Vital Statistics of the United States*, 1963. The percent of records for which Hispanic origin of the parents was not reported in 2001 is shown by State in table A.

### **Age of mother**

Beginning in 1989, a "Date of Birth" item replaced the "Age (at time of this birth)" on the birth certificate. Not all States revised this item, and therefore the age of mother is derived from either the reported month and year of birth or coded as stated on the certificate. In 2001, the mother's age was reported directly by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa.

From 1964 to 1996, age of mother was considered not stated and therefore imputed for ages under 10 years or 50 years and over. Beginning in 1997, age of mother was considered not stated and imputed for ages under 10 years or 55 years and over. The numbers of births to women aged 50–54 years are too small for computing age-specific birth rates; these births have been included with births to women aged 45–49 years for computing birth rates.

Age-specific birth rates are based on populations of women by age, prepared by the U.S. Bureau of the Census. In census years the decennial census counts are used. In intercensal years, estimates of the population of women by age are published by the U.S. Bureau of the Census in *Current Population Reports*.

The U.S. and State-level birth and fertility rates for the 2001 final report of natality data are based on estimates as of July 1 projected from the 1990 census because detailed populations based on the 2000 census were not available when the report was prepared. When the necessary population estimates based on the 2000 census and intercensal estimates become available, population-based rates for the 1990s, 2000, and 2001 will be recalculated and presented in an upcoming report. Meanwhile, considerable caution should be used in interpreting the rates and trends for the Nation and States, particularly for race specific rates (see section on population bases).

*Median age of mother*—Median age is the value that divides an age distribution into two equal parts, one-half of the values being less and one-half being greater. Median ages of mothers for 1960 to the present have been computed from birth rates for 5-year age groups rather than from birth frequencies. This method eliminates the effects of changes in the age composition of the childbearing population over time. Changes in the median ages from year to year can thus be attributed solely to changes in the age-specific birth rates. Trend data on the median age is shown in table 1–5 of *Vital Statistics of the United States, 1999, Volume I, Natality* (at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab99.htm>).

*Not stated date of birth of mother*—In 2001, age of mother was not reported on 0.01 percent of the records. Beginning in 1964 birth records with date of birth of mother and/or age of mother not stated have had age imputed according to the age of mother from the previous birth record of the same race and total-birth order (total of fetal deaths and live births). (See “Computer Edits for Natality Data, Effective 1993,” *NCHS Instruction Manual*, Part 12, page 9) (14). Editing procedures for 1963 and earlier years are described elsewhere (2).

### **Age of father**

Age of father is derived from the reported date of birth or coded as stated on the birth certificate. If the age is under 10 years, it is considered not stated and grouped with those cases for which age is not stated on the certificate. Information on age of father is often missing from birth certificates of children born to unmarried mothers, greatly inflating the number of “not stated” responses in all tabulations by age of father. In computing birth rates by age of father, births tabulated as age of father not stated are distributed in the same proportions as births with known age within each 5-year-age classification of the mother. This procedure is followed because, while father’s age is missing in 13 percent of the birth certificates in 2001, 28 percent of these were on records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded. Births with age of father not stated are distributed only for rates, not for frequency tabulations (3).

### **Live-birth order and parity**

Live-birth order and parity classifications refer to the total number of live births the mother has had including the 2001 birth. Fetal deaths are excluded.

Live-birth order indicates what number the present birth represents; for example, a baby born to a mother who has had two previous live births (even if one or both are not now living) has a live-birth order of three. Parity indicates how many live births a mother has had. Before delivery a mother having her first baby has a parity of zero, and a mother having her third baby has a parity of two. After delivery, the mother of a baby who is a first live birth has a parity of one, and the mother of a baby who is a third live birth has a parity of three.

Live-birth order and parity are determined from two items on the birth certificate, “Live births now living” and “Live births now dead.” Editing procedures for live birth order are summarized elsewhere (2, 14).

*Not stated birth order*—All births tabulated in the “birth order not stated” category are excluded from the computation of percents. In computing birth rates by live-birth order, births

tabulated as birth order not stated are distributed in the same proportion as births of known live-birth order.

### **Educational attainment**

National data on educational attainment are currently available only for the mother (2). Beginning in 1995, NCHS ceased to collect information on the educational attainment of the father.

The educational attainment of the mother is defined as “the number of years of school completed.” Only those years completed in “regular” schools are counted, that is, a formal educational system of public schools or the equivalent in accredited private or parochial schools. Business or trade schools, such as beauty and barber schools, are not considered “regular” schools for the purposes of this item. No attempt has been made to convert years of school completed in foreign school systems, ungraded school systems, and so forth, to equivalent grades in the American school system. Such entries are included in the “not stated” category.

Women who have completed only a partial year in high school or college are tabulated as having completed the highest preceding grade. For those certificates on which a specific degree is stated, years of school completed is coded to the level at which the degree is most commonly attained; for example, women reporting B.A., A.B., or B.S. degrees are considered to have completed 16 years of school.

*Education not stated*—The “not stated” category includes all records in reporting areas for which there is no information on years of school completed as well as all records for which the information provided is not compatible with coding specifications. Births tabulated as “education not stated” are excluded from the computations of percents.

In 2001 educational attainment for Alabama was miscoded; some Hispanic mothers with no education were miscoded as having 12 years of education. Caution should be used when interpreting Alabama data on education for Hispanic women.

### **Marital status**

National estimates of births to unmarried women are based on two methods of determining marital status: (1) direct question and (2) inference. Beginning June 15, 1998, Connecticut discontinued inferring the mother’s marital status and added a direct question on mother’s marital status to the State’s birth certificate.

Two States (Michigan and New York) use inferential procedures to compile birth statistics by marital status in 2001. A birth is inferred as nonmarital if either a paternity acknowledgment was received or the father’s name is missing. The presence of a paternity acknowledgment is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States.

The procedures for reporting marital status in California, Nevada, and New York City changed beginning January 1, 1997. Marital status of women giving birth in California and Nevada is determined by a direct question in the birth-registration process. Mother’s marital status is still inferred in New York City, but the procedures for inferring this information changed and are now consistent with the rest of New York State. The methods used to determine marital status and the impact of the procedures on the data were discussed in detail in a previous report (15).

In 2001 the mother’s marital status was not reported on 0.03 percent of the birth records

in States reporting this information from a direct question. Marital status was imputed as “married” for these records.

When births to unmarried women are reported as second or higher order births, it is not known whether the mother was married or unmarried when the previous deliveries occurred because her marital status at the time of these earlier births is not available from the birth record.

### **Place of delivery and attendant at birth**

The 1989 revision of the U.S. Standard Certificate of Live Birth included separate categories for freestanding birthing centers, the mother's residence, and clinic or doctor's office as the place of birth. Beginning in 1989, births occurring in clinics and in birthing centers not attached to a hospital are classified as “Not in hospital.” This change in classification may account in part for the lower proportion of “In hospital” births compared with previous years. (The change in classification of clinics should have minor impact because comparatively few births occur in these facilities, but the effect of any change in classification of freestanding birthing centers is unknown.)

Beginning in 1975 the attendant at birth and place of delivery items were coded independently, primarily to permit the identification of the person in attendance at hospital deliveries. Additional information on these items is presented elsewhere (2).

Babies born on the way to or upon arrival at the hospital are classified as having been born in the hospital. This may account for some of the hospital births not delivered by physicians or midwives. The “Not in hospital” category includes births for which no place of birth information is reported.

In 2000, Illinois started collecting data on certified nurse-midwives (CNM) and making corrections for “other midwife” and “other” categories. Data for earlier years were incomplete for Illinois births. As a result, the number of CNMs reported has significantly increased while “other midwife” has sharply decreased when compared to earlier years.

Procedures in some hospitals may require that a physician be listed as the attendant for every birth and that a physician sign each birth certificate, even if the birth is attended by a midwife and no physician is physically present. Therefore, the number of live births attended by midwives may be understated in some areas.

### **Birthweight**

In some areas birthweight is reported in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. The categories for birthweight were changed in 1979 to be consistent with recommendations in the *Ninth Revision of the International Classification of Diseases* (ICD-9) and remain the same for the *Tenth Revision of the International Classification of Diseases* (ICD-10) (5). The categories in gram intervals and their equivalents in pounds and ounces are as follows:

Less than 500 grams = 1 lb 1 oz or less  
500–999 grams = 1 lb 2 oz–2 lb 3 oz  
1,000–1,499 grams = 2 lb 4 oz–3 lb 4 oz  
1,500–1,999 grams = 3 lb 5 oz–4 lb 6 oz  
2,000–2,499 grams = 4 lb 7 oz–5 lb 8 oz

2,500–2,999 grams = 5 lb 9 oz–6 lb 9 oz  
3,000–3,499 grams = 6 lb 10 oz–7 lb 11 oz  
3,500–3,999 grams = 7 lb 12 oz–8 lb 13 oz  
4,000–4,499 grams = 8 lb 14 oz–9 lb 14 oz  
4,500–4,999 grams = 9 lb 15 oz–11 lb 0 oz  
5,000 grams or more = 11 lb 1 oz or more

ICD–9 and ICD–10 define low birthweight as less than 2,500 grams. This is a shift of 1 gram from the previous criterion of 2,500 grams or less, which was recommended by the American Academy of Pediatrics in 1935 and adopted in 1948 by the World Health Organization in the *Sixth Revision of the International Lists of Diseases and Causes of Death*.

After data classified by pounds and ounces are converted to grams, median weights are computed and rounded before publication. To establish the continuity of class intervals needed to convert pounds and ounces to grams, the end points of these intervals are assumed to be half an ounce less at the lower end and half an ounce more at the upper end. For example, 2 lb 4 oz–3 lb 4 oz is interpreted as 2 lb 3 ½ oz–3 lb 4 ½ oz.

Births for which birthweight is not reported are excluded from the computation of percents and medians.

### **Period of gestation**

The period of gestation is defined as beginning with the first day of the last normal menstrual period (LMP) and ending with the day of the birth. LMP is used as the initial date because it can be more accurately determined than the date of conception, which usually occurs 2 weeks after the LMP.

Births occurring before 37 completed weeks of gestation are considered to be “preterm” or “premature” for purposes of classification. At 37–41 weeks gestation, births are considered to be “term,” and at 42 completed weeks and over, “postterm.” These distinctions are according to the ICD–9 and ICD–10 definitions (5).

The 1989 revision of the U.S. Standard Certificate of Live Birth included a new item, “clinical estimate of gestation.” This item is compared with length of gestation computed from the LMP date when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and for very low birthweight births reported to be full term. The use of the clinical estimate in the 2001 data file is described in the Technical Notes of “Births: Final Data for 2001” (3).

Before 1981, the period of gestation was computed only when there was a valid month, day, and year of LMP. However, length of gestation could not be determined from a substantial number of live-birth certificates each year because the day of LMP was missing. Beginning in 1981, weeks of gestation have been imputed for records with missing day of LMP when there is a valid month and year. The imputation procedure and its effect on the data are described elsewhere (2, 16).

Because of postconception bleeding or menstrual irregularities, the presumed date of LMP may be in error. In these instances, the computed gestational period may be longer or shorter than the true gestational period, but the extent of such errors is unknown.

**Month of pregnancy prenatal care began**

When the name of the month is entered for this item instead of “first,” “second,” “third,” and so forth, the month of pregnancy in which prenatal care began is determined from the month named and the month last normal menses began. For these births, if “Date last normal menses began” is not stated, the month of pregnancy in which prenatal care began is tabulated as not stated.

**Number of prenatal visits**

Tabulations of the number of prenatal visits were presented for the first time in 1972. Beginning in 1989 these data were collected from the birth certificates of all States. Percent distributions and the median number of prenatal visits exclude births to mothers who had no prenatal care.

**Apgar score**

The Apgar score is a useful measure of the need for resuscitation and a predictor of the infant's chances of surviving the first year of life. It is a summary measure of the infant's condition based on heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each of these factors is given a score of 0, 1, or 2; the sum of these five values is the Apgar score, which ranges from 0 to 10. A score of 10 is optimum, and a low score raises some concerns about the potential survival and subsequent health of the infant.

The 1- and 5-minute Apgar scores were added to the U.S. Standard Certificate of Live Birth in 1978 to evaluate the condition of the newborn infant at 1 and 5 minutes after birth. Since 1991, the reporting area for the 5-minute Apgar score has been comprised of 48 States and the District of Columbia, accounting for 78 percent of all births in the United States in 2001. (California and Texas did not have Apgar score information on their birth certificates.) Beginning in 1995, NCHS collected information only on the 5-minute Apgar score.

**Tobacco and alcohol use during pregnancy**

The checkbox format allows for classification of a mother as a smoker or drinker during pregnancy and for reporting the average number of cigarettes smoked per day and drinks consumed per week. Procedures for determining the consistency between smoking and drinking status and the quantity of cigarettes or drinks reported are described elsewhere (2).

In 2001, 49 States and the District of Columbia reported information on smoking and drinking status (not available for California). For 2001, information on number of cigarettes smoked per day was reported in a consistent manner by 46 States, the District of Columbia, and New York City (figure 4–A), accounting for 87 percent of U.S. births. Indiana and New York State (except for New York City) reported this information but in a format that was inconsistent with NCHS standards. Information was not available for California and South Dakota.

**Weight gain during pregnancy**

Weight gain is reported in pounds. A loss of weight is reported as zero gain. Computations of median weight gain were based on ungrouped data. This item was included on the certificates of 49 States and the District of Columbia; California did not report this information. This reporting area, excluding California, accounted for 87 percent of all births in the United States in 2001.

**Medical risk factors for this pregnancy**

An item on medical risk factors was included on the 1989 birth certificate, but 2 States did not report all of the 16 risk factors in 2001. Texas did not report genital herpes or uterine bleeding, and Kansas did not report Rh sensitization.

The format allows for the designation of more than one risk factor and includes a choice of “None.” Accordingly, if the item is not completed, it is classified as not stated.

Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the Association for Vital Records and Health Statistics are available elsewhere (3).

**Obstetric procedures**

This item includes six specific obstetric procedures. Birth records with “Obstetric procedures” left blank are considered not stated. Data on obstetric procedures were reported by all States and the District of Columbia in 2001.

Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association for Public Health Statistics and Information Systems (NAPHSIS), formerly the Association for Vital Records and Health Statistics, are available elsewhere (3).

**Complications of labor and/or delivery**

The checkbox format allows for the selection of 15 specific complications and for the designation of more than one complication where appropriate. A choice of “None” is also included. Accordingly, if the item is not completed, it is classified as not stated.

All States and the District of Columbia included this item on their birth certificates in 2001. However, Texas did not report anesthetic complications or fetal distress.

Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials are available elsewhere (3).

**Abnormal conditions of the newborn**

This item provides information on eight specific abnormal conditions. More than one abnormal condition may be reported for a given birth, or “None” may be selected. If the item is not completed, it is tabulated as not stated. This item was included on the birth certificates of all States and the District of Columbia in 2001. However, four areas did not include all conditions. Nebraska and Texas did not report birth injury, New York City did not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more, and Wisconsin did not report fetal alcohol syndrome.

Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics are available elsewhere (3).

**Congenital anomalies of child**

The data provided in this item relate to 21 specific anomalies or anomaly groups. The format allows for the identification of more than one anomaly including a choice of “None” should no anomalies be evident. The “not stated” category includes birth records for which the item is not completed.

It is well documented that congenital anomalies, except for the most visible and most severe, are incompletely reported on birth certificates (17). The completeness of reporting specific anomalies depends on how easily they are recognized in the short time between birth and birth registration.

Forty-nine States and the District of Columbia included this item on their birth certificates. (New Mexico did not). This reporting area included 99 percent of all births in the United States in 2001. The format allows for the identification of more than one anomaly including a choice of “None” should no anomalies be evident. The “not stated” category includes birth records for which the item is not completed.

In 2001 rates for other central nervous system anomalies in Arizona and Oklahoma may be overstated because of misreporting.

Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials are available elsewhere (3).

### **Method of delivery**

The birth certificate contains a checkbox item for method of delivery. The choices include vaginal delivery, with the additional options of forceps, vacuum, and vaginal birth after previous cesarean section (VBAC), as well as a choice of primary or repeat cesarean. When only forceps, vacuum, or VBAC is checked, a vaginal birth is assumed. In 2001 this information was collected from the birth certificates of all States and the District of Columbia.

Several rates are computed for method of delivery. The overall cesarean section rate or total cesarean rate is computed as the proportion of all births that were delivered by cesarean section. The primary cesarean rate is a measure that relates the number of women having a primary cesarean birth to all women giving birth who have never had a cesarean delivery. The denominator for this rate is the sum of women with a vaginal birth excluding VBACs and women with a primary cesarean birth. The rate for VBAC delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section. VBAC rates are computed for first births because the rates are computed on previous pregnancies, not just live births.

### **Hispanic parentage**

The 1989 revision of the U.S. Standard Certificate of Live Births includes items to identify the Hispanic origin of the parents. All 50 States and the District of Columbia reported Hispanic origin of the parents for 2001.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (0.6 percent in 2001) were actually to Hispanic mothers. The population with origin not stated was imputed. The effect on the rates is believed to be small.

### **Quality of Data**

Although vital statistics data are useful for a variety of administrative and scientific

purposes, they cannot be correctly interpreted unless various qualifying factors and methods of classification are taken into account. The factors to be considered depend on the specific purposes for which the data are to be used. It is not feasible to discuss all the pertinent factors in the use of vital statistics tabulations, but some of the more important ones should be mentioned.

Most of the factors limiting the use of data arise from imperfections in the original records or from the impracticability of tabulating these data in very detailed categories. These limitations should not be ignored, but their existence does not lessen the value of the data for most general purposes.

### **Completeness of registration**

An estimated 99 percent of all births occurring in the United States in 2001 were registered; for white births, registration was 99.5 percent complete and for all other births, 98.6 percent complete. These estimates are based on the results of the 1964–68 test of birth-registration completeness according to place of delivery (in or out of hospital) and race. (This test has not been conducted more recently.) The primary purpose of the test was to obtain current measures of registration completeness for births in and out of hospital by race on a national basis. Data for States were not available as they had been from the previous birth-registration tests in 1940 and 1950. A detailed discussion of the method and results of the 1964–68 birth-registration test is available (18). Information on procedures for adjusting births for underregistration (for cohort fertility tables) is presented elsewhere in this report (2).

### **Completeness of reporting**

Interpretation of these data must include evaluation of item completeness. The percent in the “not stated” category is one measure of the quality of the data. Completeness of reporting varies among items and States. See table A for the percent of birth records on which specified items were not stated. Data users should note that levels of incomplete or inaccurate reporting for some of the items are quite high in some States. Data for 2001 for the District of Columbia and Washington are of particular concern.

### **Quality control procedures**

As electronic files are received at NCHS, they are automatically checked for completeness, individual item code validity, and unacceptable inconsistencies between data items. The registration area is notified of any problems. In addition, NCHS staff review the files on an ongoing basis to detect problems in overall quality such as inadequate reporting for certain items, failure to follow NCHS coding rules, and systems and software errors. Traditionally, quality assurance procedures were limited to review and analysis of differences between NCHS and registration area code assignments for a small sample of records. In recent years, as electronic birth registration became prevalent, this procedure was augmented by analyses of year-to-year and area-to-area variations in the data. These analyses are based on preliminary tabulations of the data that are cumulated by State on a year-to-date basis each month. NCHS investigates all differences that are judged to have consequences for quality and completeness. In the review process, statistical tests are used to call initial attention to differences for possible follow-up. As necessary, registration areas are informed of differences encountered in the tables and asked to verify the counts or to determine the nature of the differences. Missing records (except those permanently voided) and other problems detected by NCHS are resolved, and

corrections are transmitted to NCHS in the same manner as for those corrections identified by the registration area.

### **Random variation and significance testing for natality data**

A detailed discussion of random variation and significance testing for natality data is presented in the Technical notes of “Births: Final Data for 2001.” (3) This section presents information specifically for Hispanic subgroups.

### **Computing confidence intervals for Hispanic subgroups**

Birth and fertility rates for Mexicans, Puerto Ricans, Cubans, and “Other” Hispanics for 2001 are not currently available because the necessary populations estimated from the 2000 Census are not available (3). Rates for Hispanic subgroups will be reported in a special report and in tables 1–4 and 1–12 of *Vital Statistics of the United States, part 1, Natality* when the necessary populations become available.

Population estimates for Hispanic subgroups are derived from the U.S. Census Bureau’s *Current Population Survey* and adjusted to resident population control totals as shown in table 4–2. As a result, the rates are subject to the variability of the denominator as well as the numerator. For these Hispanic subgroups only (not for all origin, total Hispanic, total non-Hispanic, non-Hispanic white, or non-Hispanic black populations), the following formulas are used:

#### ***Approximate 95 percent Confidence Interval: 100 or more births***

When the number of events in the numerator is greater than 100, the confidence interval for the birth rate can be estimated from the following formulas:

For crude and age-specific birth rates,

$$\text{Lower limit} = R - 1.96 * R * \sqrt{\left(\frac{1}{B}\right) + f\left(a + \frac{b}{P}\right)}$$

$$\text{Upper limit} = R + 1.96 * R * \sqrt{\left(\frac{1}{B}\right) + f\left(a + \frac{b}{P}\right)}$$

where:

$R$  = rate (births per 1,000 population)

$B$  = total number of births upon which rate is based

$f$  = factor that depends on whether the population estimate is based on demographic analysis or CPS and the number of years used, equals 0.670 for single year

$a$  and  $b$  are single year averages of the 2000 and 2001 CPS standard error parameters (19, 20)

$a$  = -0.000162

$b$  = 5,648

$P$  = total estimated population upon which rate is based

### **Example**

Suppose that the fertility rate of Cuban women 15–44 years of age was 51.2 per 1,000 based on 13,088 births in the numerator and an estimated resident population of 255,399 in the denominator. The 95 percent confidence interval would be:

$$\begin{aligned}\text{Lower limit} &= 51.2 - 1.96 * 51.2 * \sqrt{\left(\frac{1}{13,088}\right) + 0.670 * \left[-0.000162 + \left(\frac{5,648}{255,399}\right)\right]} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.000076405 + (0.670 * 0.021952)} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.014784} \\ &= 51.2 - 1.96 * 51.2 * 0.121589 \\ &= 39.00\end{aligned}$$

$$\begin{aligned}\text{Upper limit} &= 51.2 + 1.96 * 51.2 * \sqrt{\left(\frac{1}{13,088}\right) + 0.670 * \left[-0.000162 + \left(\frac{5,648}{255,399}\right)\right]} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.000076405 + (0.670 * 0.021952)} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.014784} \\ &= 51.2 + 1.96 * 51.2 * 0.121589 \\ &= 63.40\end{aligned}$$

This means that the chances are 95 out of 100 that the actual fertility rate of Cuban women 15–44 years of age is between 39.00 and 63.40.

### **Approximate 95 percent Confidence Interval: 1–99 births**

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for the birth rate can be estimated using the formulas that follow and the values in table C.

For crude and age-specific birth rates,

$$\begin{aligned}\text{Lower limit} &= R * L(1 - \alpha = .96, B) * \left(1 - 2.576 \sqrt{f\left(a + \frac{b}{P}\right)}\right) \\ \text{Upper limit} &= R * U(1 - \alpha = .96, B) * \left(1 + 2.576 \sqrt{f\left(a + \frac{b}{P}\right)}\right)\end{aligned}$$

where:

$R$  = rate (births per 1,000 population)

$B$  = total number of births upon which rate is based

$L$  = the value in table C that corresponds to the number B, using the 96 percent CI

- column
- $U$  = the value in table C that corresponds to the number B, using the 96 percent CI column
- $f$  = factor that depends on whether the population estimate is based on demographic analysis or CPS and the number of years used, equals 0.670 for single year
- $a$  and  $b$  are CPS standard error parameters (see previous section on 95 percent confidence interval for 100 or more births for description and specific values)
- $P$  = total estimated population upon which rate is based

### **Example**

Suppose that the birth rate of Puerto Rican women 45–49 years of age was 0.4 per 1,000, based on 35 births in the numerator and an estimated resident population of 87,892 in the denominator. Using table C, the 95 percent confidence interval would be:

$$\begin{aligned}
 \text{Lower limit} &= 0.4 * 0.68419 * \left( 1 - 2.576 \sqrt{0.670 \left( -0.000162 + \left( \frac{5,648}{87,892} \right) \right)} \right) \\
 &= 0.4 * 0.68419 * \left( 1 - 2.576 \sqrt{0.042946} \right) \\
 &= 0.4 * 0.68419 * (1 - 2.576 * 0.207234) \\
 &= 0.4 * 0.68419 * 0.466165 \\
 &= 0.1 \\
 \\
 \text{Upper limit} &= 0.4 * 1.41047 * \left( 1 + 2.576 \sqrt{0.670 \left( -0.000162 + \left( \frac{5,648}{87,892} \right) \right)} \right) \\
 &= 0.4 * 1.41047 * \left( 1 + 2.576 \sqrt{0.042946} \right) \\
 &= 0.4 * 1.41047 * (1 + 2.576 * 0.207234) \\
 &= 0.4 * 1.41047 * 1.533835 \\
 &= 0.9
 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual birth rate of Puerto Rican women 45–49 years of age is between 0.1 and 0.9.

NOTE: In the formulas above, the confidence limits are estimated from the nonsampling error in the number of births, the numerator, and the sampling error in the population estimate, the denominator. A 96 percent standard error is computed for the numerator, and a 99 percent standard error is computed for the denominator in order to compute a 95 percent confidence interval for the rate.

### **Significance testing for Hispanic subgroups**

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$= 1.96 * \sqrt{R_1^2 * \left[ \left( \frac{1}{B_1} \right) + f \left( a + \frac{b}{P_1} \right) \right] + R_2^2 * \left[ \left( \frac{1}{B_2} \right) + f \left( a + \frac{b}{P_2} \right) \right]}$$

If the difference is greater than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is less than this statistic, the difference might occur by chance more than 5 times out of 100. We would therefore conclude that the difference is not statistically significant at the 95 percent confidence level.

### **Example**

Suppose the birth rate for Puerto Rican mothers 15–19 years of age ( $R_1$ ) is 80.6, based on 11,978 births and an estimated population of 148,673, and the birth rate for Cuban mothers 15–19 years of age ( $R_2$ ) is 27.1, based on 997 births and an estimated population of 36,782. Using the above formula, the z score is computed as follows:

$$\begin{aligned} &= 1.96 * \sqrt{80.6^2 * \left[ \left( \frac{1}{11,978} \right) + 0.670 \left( -0.000162 + \frac{5,648}{148,673} \right) \right] + 27.1^2 * \left[ \left( \frac{1}{997} \right) + 0.670 \left( -0.000162 + \frac{5,648}{36,782} \right) \right]} \\ &= 1.96 * \sqrt{6,496.36 * (0.000083486 + 0.670 * 0.037827) + 734.41 * (0.001003009 + 0.670 * 0.153391)} \\ &= 1.96 * \sqrt{(6496.36 * 0.025428) + (734.41 * 0.103775)} \\ &= 1.96 * \sqrt{165.19 + 76.21} \\ &= 1.96 * 15.54 \\ &= 30.46 \end{aligned}$$

Since the difference between the two rates of 53.5 is greater than the value above, the two rates are statistically significantly different at the 0.05 level of significance.

## **Computation of rates and other measures**

### **Population bases**

The rates shown in this report were computed based on population statistics prepared by the U.S. Census Bureau. Rates for 1940, 1950, 1960, 1970, 1980, and 1990 are based on the population enumerated as of April 1 in the censuses of those years. Rates for all other years are based on the estimated midyear (July 1) population for the respective years. These populations have been modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date (21).

Populations in tables 4–1 through 4–4 differ from those used to calculate birth and fertility rates published in “Births: Final Data for 2001” and “Births: Final Data for 2000” (3, 22). Populations for April 1, 2000 and July 1, 2001 provided in this report were produced under a collaborative arrangement with the U.S. Census Bureau (23–25) and (23–25). They are based on the 2000 census counts by age, race, and sex, which were modified to be consistent with Office

of Management and Budget racial categories of 1977 and historical categories for birth data; in the case of age, they were modified to reflect age as of the census reference date. The modification procedures are described in detail elsewhere (21, 26 and 27).

The special report “Revised Birth and Fertility Rates for the United States, 2000 and 2001,” (28) updates the rates published in “Births: Final Data for 2001” and “Births: Final Data for 2000” (3, 22). The revised birth and fertility rates in the new report include rates by race and Hispanic origin, by age of mother, and by age of father for 2000 and 2001. Rates for unmarried women are also presented. A subsequent special report (now in preparation) will show revised birth and fertility rates for the intercensal years, 1991–99, along with the rates for 2000 and 2001.

Birth rates for the United States, individual States, and metropolitan areas are based on the total resident populations of the respective areas. Revised rates for 2001 for individual States and metropolitan areas have not been computed since the necessary populations are not yet available (table 4–4). Revised State-specific population for 2000 are now available, and revised rates will be presented in the special report now in preparation. Except as noted, these populations exclude the Armed Forces abroad but include the Armed Forces stationed in each area. The resident population of the birth- and death-registration States for 1900–32 and for the United States for 1900–2001 is shown in table 4-1. In addition, the population including Armed Forces abroad is shown for the United States. Table D shows the sources for these populations. A detailed discussion of historical population bases is presented elsewhere (2).

### **Net census undercounts and overcounts**

Studies conducted by the U.S. Census Bureau indicate that some age, race, and sex groups are more completely enumerated than others. These census miscounts can have consequences for vital statistics measures. For example, an adjustment to increase the population denominator would result in a smaller rate compared to the unadjusted rate. A more detailed discussion of census undercounts and overcounts can be found in the 1999 Technical appendix (2). Adjusted rates for 1990 can be computed by multiplying the reported rates by ratios of the 1990 census-level population adjusted for the estimated net census miscounts; these ratios are shown in table E.

### **Cohort fertility tables**

The various fertility measures shown for cohorts of women are computed from births adjusted for under-registration and population estimates corrected for under-enumeration and misstatement of age. Data published after 1974 use revised population estimates prepared by the U.S. Census Bureau and have been expanded to include data for the two major racial groups. Heuser has prepared a detailed description of the methods used in deriving these measures as well as more detailed data for earlier years (29). These tables for current years are available at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab99.htm>.

*Parity distribution*—The percent distribution of women by parity (number of children ever born alive to mother) is derived from cumulative birth rates by order of birth. The percent of zero-parity women is obtained by subtracting the cumulative first birth rate from 1,000 and dividing by 10. The proportions of women at parities one through six are derived from the following formula:

$$\text{Percent at N parity} = ((\text{cum. rate, order N}) - (\text{cum. rate, order N} + 1)) / 10$$

The percent of women at seventh and higher parities is found by dividing the cumulative rate for seventh-order births by 10.

*Birth probabilities*—Birth probabilities indicate the likelihood that a woman of a certain parity and age at the beginning of the year will have a child during that year. Birth probabilities differ from central birth rates in that the denominator for birth probabilities is specific for parity as well as for age.

### **Total fertility rate**

The total fertility rate is the sum of the birth rates by age of mother (in 5-year age groups) multiplied by 5. It is an age-adjusted rate because it is based on the assumption that each age group has the same number of women. For example, a total fertility rate of 2,034 means that if a hypothetical group of 1,000 women had the same birth rates in each age group that were observed in the actual childbearing population for that year, they would have a total of 2,034 children by the time they reached the end of the reproductive period (taken here to be age 50 years), assuming that all of the women survived to that age.

### **Seasonal adjustment of rates**

Seasonally adjusted birth and fertility rates are computed from the X-11 variant of Census Method II (30). This method, used since 1964, differs slightly from the U.S. Bureau of Labor Statistics (BLS) Seasonal Factor Method, which was used for *Vital Statistics of the United States, 1964*. A comparison of the Census Method II with the BLS Seasonal Factor Method shows the differences in the seasonal patterns of births to be negligible. The fundamental technique is the same in that it is an adaptation of the ratio-to-moving-average method. (Before 1964, the method of seasonal adjustment was based on the X-9 variant and other variants of Census Method II.)

### **Computations of percents, percent distributions, and medians**

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before computation of percents, percent distributions, and medians. The percent of records with missing information for each item is shown by State in table A.

The median number of prenatal visits excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. The median age of mother is computed from birth rates in 5-year age groups, which eliminates the effects of changes in the age composition of the childbearing population over time.

An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

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FIGURE 4-A

TYPE/PRINT  
IN  
PERMANENT  
BLACK INK  
FOR  
INSTRUCTIONS  
SEE  
HANDBOOK

U.S. STANDARD  
CERTIFICATE OF LIVE BIRTH

BIRTH NUMBER

LOCAL FILE NUMBER

CHILD

|   |                                    |                                    |  |                   |  |
|---|------------------------------------|------------------------------------|--|-------------------|--|
| 1 CHILD'S NAME (First, Middle, Last)  |                                    | 2 DATE OF BIRTH (Month, Day, Year) |  | 3 TIME OF BIRTH   |  |
| 4 SEX   | 5 CITY, TOWN, OR LOCATION OF BIRTH |                                    |  | 6 COUNTY OF BIRTH |  |
| 7 PLACE OF BIRTH <input type="checkbox"/> Hospital <input type="checkbox"/> Free-standing Birthing Center<br><input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> Residence<br><input type="checkbox"/> Other (Specify) _____ |                                    |                                    | 8 FACILITY NAME (if not institution, give street and number) |                   |  |

CERTIFIER/  
ATTENDANT

DEATH UNDER  
ONE YEAR OF  
AGE  
Enter State File  
Number of death  
certificate for  
this child

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| 9 I certify that this child was born alive at the place and time and on the date stated   |  | 10 DATE SIGNED (Month, Day, Year)   |  | 11 ATTENDANT'S NAME AND TITLE (if other than certifier) (Type/Print)<br>Name _____<br><input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife<br><input type="checkbox"/> Other (Specify) _____ |  |
| 12 CERTIFIER'S NAME AND TITLE (Type/Print)<br>Name _____<br><input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> Hospital Admin. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife<br><input type="checkbox"/> Other (Specify) _____ |  | 13 ATTENDANT'S MAILING ADDRESS (Street and Number or Rural Route Number, City or Town, State, Zip Code) |  |  |  |

MOTHER

|   |  |   |  |
|---|--|---|--|
| 14 REGISTRAR'S SIGNATURE                |  | 15 DATE FILED BY REGISTRAR (Month, Day, Year)                           |  |
| 16a MOTHER'S NAME (First, Middle, Last) |  | 16b MAIDEN SURNAME  |  |
| 17 DATE OF BIRTH (Month, Day, Year)     |  | 18 BIRTHPLACE (State or Foreign Country)                                |  |
| 19a RESIDENCE—STATE                     |  | 19b COUNTY  |  |
| 19c CITY, TOWN, OR LOCATION             |  | 19d STREET AND NUMBER   |  |
| 19e INSIDE CITY LIMITS? (Yes or no)     |  | 20 MOTHER'S MAILING ADDRESS (if same as residence, enter Zip Code only) |  |

FATHER

|  |  |                                     |  |  |  |
|--|--|-------------------------------------|--|--|--|
| 21 FATHER'S NAME (First, Middle, Last) |  | 22 DATE OF BIRTH (Month, Day, Year) |  | 23 BIRTHPLACE (State or Foreign Country) |  |
|--|--|-------------------------------------|--|--|--|

INFORMANT

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| 24 I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief.<br>Signature of Parent or Other Informant _____ |  |  |  |  |  |
|--|--|--|--|--|--|

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

MOTHER

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| 25 OF HISPANIC ORIGIN? (Specify No or Yes—if yes, specify Cuban, Mexican, Puerto Rican, etc.) |  | 26 RACE—American Indian, Black, White, etc. (Specify below) |  | 27 EDUCATION (Specify only highest grade completed)<br>Elementary, Secondary (12), College (14 or 16) |  |
| 25a <input type="checkbox"/> No <input type="checkbox"/> Yes<br>Specify: _____                |  | 26a _____   |  | 27a _____   |  |

FATHER

|  |  |           |  |           |  |
|--|--|-----------|--|-----------|--|
| 25b <input type="checkbox"/> No <input type="checkbox"/> Yes<br>Specify: _____ |  | 26b _____ |  | 27b _____ |  |
|--|--|-----------|--|-----------|--|

MULTIPLE BIRTHS  
Number for (Male(s))  
LIVE BIRTH(S)

FETAL DEATH(S)

|   |  |   |  |  |  |  |
|---|--|---|--|--|--|--|
| 28. PREGNANCY HISTORY (Complete each section)               |  |   | 29 MOTHER MARRIED? (At birth, conception, or any time between) (Yes or no) |  | 30 DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)                            |  |
| LIVE BIRTHS (Do not include this child)                     |  |   | OTHER TERMINATIONS (Spontaneous and induced at any time after conception)  |  | 31 MONTH OF PREGNANCY PRENATAL CARE BEGAN—First, Second, Third, etc. (Specify) |  |
| 28a. Now Living   |  | 28b. Now Dead   | 28c. _____   |  | 32 PRENATAL VISITS—Total Number (if none, so state)                            |  |
| Number _____  |  | Number _____  | Number _____   |  | 33 BIRTH WEIGHT (Specify unit)   |  |
| <input type="checkbox"/> None <input type="checkbox"/> None |  | <input type="checkbox"/> None <input type="checkbox"/> None | <input type="checkbox"/> None <input type="checkbox"/> None                |  | 34 CLINICAL ESTIMATE OF GESTATION (Weeks)                                      |  |
| 28d. DATE OF LAST LIVE BIRTH (Month, Year)                  |  |   | 28e. DATE OF LAST OTHER TERMINATION (Month, Year)                          |  | 35a PLURALITY—Single, Twin, Triplet, etc. (Specify)                            |  |
| 28f. _____  |  |   | 28g. _____   |  | 35b IF NOT SINGLE BIRTH—Born First, Second, Third, etc. (Specify)              |  |

|                 |                |  |  |
|-----------------|----------------|--|--|
| 36. APGAR SCORE |                | 37a. MOTHER TRANSFERRED PRIOR TO DELIVERY? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, enter name of facility transferred from: _____ |  |
| 36a. 1 Minute   | 36b. 5 Minutes | 37b. INFANT TRANSFERRED? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, enter name of facility transferred to: _____                     |  |

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| 38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)  |  | 40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)  |  | 43. CONGENITAL ANOMALIES OF CHILD (Check all that apply)  |  |
| Anemia (Hct <30/Mg) 01 <input type="checkbox"/><br>Cardiac disease 02 <input type="checkbox"/><br>Acute or chronic lung disease 03 <input type="checkbox"/><br>Diabetes 04 <input type="checkbox"/><br>Genital herpes 05 <input type="checkbox"/><br>Hydranmios/Oligohydramnios 06 <input type="checkbox"/><br>Hemoglobinopathy 07 <input type="checkbox"/><br>Hypertension, chronic 08 <input type="checkbox"/><br>Hypertension, pregnancy-associated 09 <input type="checkbox"/><br>Eclampsia 10 <input type="checkbox"/><br>Incompetent cervix 11 <input type="checkbox"/><br>Previous infant 4000+ grams 12 <input type="checkbox"/><br>Previous preterm or small-for gestational age infant 13 <input type="checkbox"/><br>Renal disease 14 <input type="checkbox"/><br>Rh sensitization 15 <input type="checkbox"/><br>Uterine bleeding 16 <input type="checkbox"/><br>None 00 <input type="checkbox"/><br>Other (Specify) 17 <input type="checkbox"/> |  | Febrile (>100°F or 38°C) 01 <input type="checkbox"/><br>Meconium, moderate/heavy 02 <input type="checkbox"/><br>Premature rupture of membrane (>12 hours) 03 <input type="checkbox"/><br>Abruptio placenta 04 <input type="checkbox"/><br>Placenta previa 05 <input type="checkbox"/><br>Other excessive bleeding 06 <input type="checkbox"/><br>Seizures during labor 07 <input type="checkbox"/><br>Precocious labor (<3 hours) 08 <input type="checkbox"/><br>Prolonged labor (>20 hours) 09 <input type="checkbox"/><br>Dysfunctional labor 10 <input type="checkbox"/><br>Breech/Malpresentation 11 <input type="checkbox"/><br>Cephalopelvic disproportion 12 <input type="checkbox"/><br>Cord prolapse 13 <input type="checkbox"/><br>Anesthetic complications 14 <input type="checkbox"/><br>Fetal distress 15 <input type="checkbox"/><br>None 00 <input type="checkbox"/><br>Other (Specify) 16 <input type="checkbox"/> |  | Anencephalus 01 <input type="checkbox"/><br>Soma bifida/Meningocele 02 <input type="checkbox"/><br>Hydrocephalus 03 <input type="checkbox"/><br>Microcephalus 04 <input type="checkbox"/><br>Other central nervous system anomalies (Specify) 05 <input type="checkbox"/><br>Heart malformations 06 <input type="checkbox"/><br>Other circulatory/respiratory anomalies (Specify) 07 <input type="checkbox"/><br>Rectal atresia/stenosis 08 <input type="checkbox"/><br>Tracheo esophageal fistula/Esophageal atresia 09 <input type="checkbox"/><br>Omphalocele/Gastroschisis 10 <input type="checkbox"/><br>Other gastrointestinal anomalies (Specify) 11 <input type="checkbox"/><br>Malformed genitalia 12 <input type="checkbox"/><br>Renal anomalies 13 <input type="checkbox"/><br>Other urogenital anomalies (Specify) 14 <input type="checkbox"/><br>Cleft lip/palate 15 <input type="checkbox"/><br>Polydactyly/Syndactyly/Acrosyly 16 <input type="checkbox"/><br>Club foot 17 <input type="checkbox"/><br>Diaphragmatic hernia 18 <input type="checkbox"/><br>Other musculoskeletal/integumental anomalies (Specify) 19 <input type="checkbox"/><br>Down's syndrome 20 <input type="checkbox"/><br>Other chromosomal anomalies (Specify) 21 <input type="checkbox"/><br>None 00 <input type="checkbox"/><br>Other (Specify) 22 <input type="checkbox"/> |  |
| 38b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)  |  | 41. METHOD OF DELIVERY (Check all that apply)  |  | 42. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)   |  |
| Tobacco use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/><br>Average number cigarettes per day _____<br>Alcohol use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/><br>Average number drinks per week _____<br>Weight gained during pregnancy _____ lbs  |  | Vaginal 01 <input type="checkbox"/><br>Vaginal birth after previous C section 02 <input type="checkbox"/><br>Primary C section 03 <input type="checkbox"/><br>Repeat C section 04 <input type="checkbox"/><br>Forceps 05 <input type="checkbox"/><br>Vacuum 06 <input type="checkbox"/>  |  | Anemia (Hct <39/Mg <13) 01 <input type="checkbox"/><br>Birth injury 02 <input type="checkbox"/><br>Fetal alcohol syndrome 03 <input type="checkbox"/><br>Hyaline membrane disease/RDS 04 <input type="checkbox"/><br>Meconium aspiration syndrome 05 <input type="checkbox"/><br>Assisted ventilation <30 min 06 <input type="checkbox"/><br>Assisted ventilation ≥30 min 07 <input type="checkbox"/><br>Seizures 08 <input type="checkbox"/><br>None 00 <input type="checkbox"/><br>Other (Specify) 09 <input type="checkbox"/>  |  |
| 39. OBSTETRIC PROCEDURES (Check all that apply)  |  | 44. OTHER CHROMOSOMAL ANOMALIES (Specify)  |  |   |  |
| Amniocentesis 01 <input type="checkbox"/><br>Electronic fetal monitoring 02 <input type="checkbox"/><br>Induction of labor 03 <input type="checkbox"/><br>Stimulation of labor 04 <input type="checkbox"/><br>Tocolysis 05 <input type="checkbox"/><br>Ultrasound 06 <input type="checkbox"/><br>None 00 <input type="checkbox"/><br>Other (Specify) 07 <input type="checkbox"/>   |  | 45. OTHER CHROMOSOMAL ANOMALIES (Specify)  |  |   |  |

DEPARTMENT OF HEALTH AND HUMAN SERVICES - PUBLIC HEALTH SERVICE - CENTERS FOR DISEASE CONTROL  
NATIONAL CENTER ON HEALTH STATISTICS - 1988 REVISION

**Table A. Percent of Birth Records on Which Specified Items Were Not Stated: United States and Each State and territory, 2001**

[By place of residence]

| Area                        | All<br>births | Place<br>of birth | Attendant<br>at birth | Mother's<br>birthplace | Father's<br>age | Father's<br>race | Hispanic origin |        | Educational<br>attainment<br>of mother |
|-----------------------------|---------------|-------------------|-----------------------|------------------------|-----------------|------------------|-----------------|--------|--|
|                             |               |                   |                       |                        |                 |                  | Mother          | Father |  |
| Total of reporting areas 1/ | 4,025,933     | 0.0               | 0.0                   | 0.3                    | 13.5            | 14.1             | 0.6             | 14.1   | 1.4                                    |
| Alabama                     | 60,454        | 0.0               | 0.0                   | 0.1                    | 21.4            | 21.5             | 0.1             | 21.4   | 0.2                                    |
| Alaska                      | 10,003        | 0.2               | 0.1                   | 0.7                    | 12.2            | 13.8             | 8.7             | 17.3   | 3.4                                    |
| Arizona                     | 85,597        | 0.0               | 0.0                   | 0.1                    | 18.3            | 19.5             | 1.3             | 19.9   | 2.3                                    |
| Arkansas                    | 37,010        | 0.0               | 0.0                   | 0.4                    | 19.7            | 21.0             | 0.4             | 20.3   | 0.7                                    |
| California                  | 527,759       | 0.0               | 0.1                   | 0.2                    | 7.1             | 6.7              | 0.6             | 6.3    | 1.6                                    |
| Colorado                    | 67,007        | -                 | 0.0                   | 0.4                    | 8.1             | 8.5              | 0.0             | 8.6    | 1.1                                    |
| Connecticut                 | 42,648        | 0.0               | 0.0                   | 0.3                    | 10.2            | 11.6             | 1.2             | 11.3   | 1.5                                    |
| Delaware                    | 10,749        | -                 | -                     | 0.1                    | 29.7            | 30.4             | 0.1             | 29.6   | 0.6                                    |
| District of Columbia        | 7,625         | -                 | -                     | 0.1                    | 39.2            | 47.4             | 0.6             | 39.1   | 7.0                                    |
| Florida                     | 205,793       | 0.0               | 0.0                   | 0.1                    | 16.7            | 17.0             | 0.2             | 18.5   | 0.7                                    |
| Georgia                     | 133,526       | 0.0               | 0.0                   | 0.2                    | 17.6            | 17.8             | 1.2             | 18.5   | 1.2                                    |
| Hawaii                      | 17,072        | -                 | 0.0                   | 0.1                    | 9.4             | 9.5              | 0.1             | 9.2    | 0.8                                    |
| Idaho                       | 20,688        | 0.0               | 0.0                   | 0.7                    | 8.2             | 11.7             | 1.9             | 12.4   | 3.1                                    |
| Illinois                    | 184,064       | 0.0               | 0.0                   | 0.1                    | 13.4            | 15.2             | 0.0             | 15.1   | 1.1                                    |
| Indiana                     | 86,459        | 0.0               | 0.0                   | 0.1                    | 12.6            | 12.6             | 0.4             | 12.9   | 0.6                                    |
| Iowa                        | 37,619        | -                 | 0.0                   | 0.0                    | 12.6            | 14.3             | 0.3             | 14.0   | 0.3                                    |
| Kansas                      | 38,869        | -                 | 0.1                   | 0.1                    | 10.4            | 11.2             | 1.1             | 11.9   | 0.4                                    |
| Kentucky                    | 54,658        | 0.0               | 0.1                   | 0.0                    | 19.6            | 22.2             | 0.0             | 22.4   | 0.3                                    |
| Louisiana                   | 65,352        | 0.0               | 0.0                   | 0.0                    | 20.3            | 20.3             | 0.1             | 20.3   | 0.1                                    |
| Maine                       | 13,759        | -                 | -                     | -                      | 8.6             | 12.4             | 0.4             | 10.4   | 0.9                                    |
| Maryland                    | 73,218        | 0.0               | 0.0                   | 0.4                    | 11.5            | 12.7             | 0.4             | 10.7   | 1.4                                    |
| Massachusetts               | 81,077        | 0.0               | 0.0                   | 0.0                    | 7.0             | 7.4              | 0.8             | 6.7    | 0.3                                    |
| Michigan                    | 133,427       | 0.0               | 0.1                   | 0.1                    | 14.2            | 16.4             | 1.4             | 17.3   | 2.2                                    |
| Minnesota                   | 67,562        | 0.0               | 0.0                   | 0.2                    | 9.4             | 13.5             | 0.7             | 13.3   | 2.3                                    |
| Mississippi                 | 42,282        | -                 | 0.0                   | 0.1                    | 22.1            | 22.0             | 0.1             | 22.1   | 0.3                                    |
| Missouri                    | 75,464        | 0.0               | -                     | 0.2                    | 18.5            | 18.3             | 0.1             | 17.8   | 0.7                                    |
| Montana                     | 10,970        | -                 | 0.2                   | 0.0                    | 9.8             | 11.0             | 2.9             | 13.6   | 0.1                                    |
| Nebraska                    | 24,820        | -                 | -                     | -                      | 11.8            | 13.3             | 2.1             | 13.8   | 0.1                                    |
| Nevada                      | 31,382        | 0.0               | 0.0                   | 0.5                    | 20.0            | 20.9             | 1.1             | 20.0   | 2.9                                    |
| New Hampshire               | 14,656        | -                 | -                     | 0.1                    | 5.4             | 7.5              | 4.5             | 10.8   | 1.3                                    |
| New Jersey                  | 115,795       | 0.0               | 0.0                   | 0.1                    | 7.9             | 9.5              | 0.3             | 8.3    | 2.9                                    |
| New Mexico                  | 27,128        | -                 | 0.0                   | 1.3                    | 21.0            | 20.5             | 0.0             | 20.5   | 2.9                                    |
| New York                    | 254,026       | 0.1               | 0.0                   | 0.4                    | 14.0            | 14.4             | 1.1             | 14.8   | 1.0                                    |
| North Carolina              | 118,185       | -                 | 0.0                   | 0.0                    | 15.7            | 15.8             | 0.1             | 16.1   | 0.2                                    |
| North Dakota                | 7,629         | 0.0               | -                     | 0.0                    | 8.5             | 8.9              | 2.5             | 11.5   | 0.5                                    |
| Ohio                        | 151,570       | 0.0               | 0.0                   | 1.1                    | 14.9            | 15.5             | 0.2             | 15.0   | 0.9                                    |
| Oklahoma                    | 50,118        | 0.0               | 0.0                   | 0.0                    | 17.5            | 18.8             | 0.2             | 18.4   | 0.3                                    |
| Oregon                      | 45,322        | -                 | -                     | 0.1                    | 10.3            | 4.0              | 0.3             | 4.3    | 1.2                                    |
| Pennsylvania                | 143,495       | 0.0               | 0.0                   | 0.9                    | 5.0             | 5.4              | 0.7             | 4.2    | 2.7                                    |
| Rhode Island                | 12,713        | -                 | -                     | 0.5                    | 13.4            | 13.9             | 9.9             | 20.5   | 2.4                                    |
| South Carolina              | 55,756        | -                 | -                     | 0.1                    | 27.1            | 27.3             | 0.1             | 27.1   | 1.1                                    |
| South Dakota                | 10,483        | -                 | -                     | 0.0                    | 13.1            | 13.2             | 0.1             | 13.4   | 0.3                                    |
| Tennessee                   | 78,340        | 0.0               | 0.0                   | 0.1                    | 15.3            | 15.5             | 0.0             | 15.5   | 0.3                                    |
| Texas                       | 365,410       | 0.0               | 0.0                   | 0.5                    | 14.2            | 14.4             | 0.3             | 14.4   | 2.0                                    |
| Utah                        | 47,959        | -                 | -                     | 0.2                    | 8.4             | 10.0             | 0.6             | 9.4    | 1.6                                    |
| Vermont                     | 6,366         | -                 | -                     | 0.1                    | 7.6             | 13.6             | 3.0             | 15.9   | 0.9                                    |
| Virginia                    | 98,884        | -                 | 0.0                   | 0.1                    | 16.6            | 18.5             | 0.2             | 16.7   | 1.0                                    |
| Washington                  | 79,570        | 0.0               | 0.1                   | 0.5                    | 10.6            | 13.1             | 1.7             | 13.3   | 6.1                                    |
| West Virginia               | 20,428        | 0.2               | 0.0                   | 0.1                    | 12.7            | 13.1             | 0.3             | 13.2   | 0.6                                    |
| Wisconsin                   | 69,072        | 0.0               | 0.0                   | 0.1                    | 29.5            | 29.6             | 0.0             | 29.6   | 0.3                                    |
| Wyoming                     | 6,115         | -                 | -                     | 0.1                    | 13.6            | 14.0             | 0.1             | 13.8   | 0.3                                    |
| Puerto Rico                 | 55,866        | 0.0               | 0.1                   | -                      | 3.4             | 4.2              | ---             | ---    | 0.3                                    |
| Virgin Islands              | 1,669         | -                 | 0.1                   | -                      | 19.4            | 21.0             | 3.1             | 24.7   | 1.7                                    |
| Guam                        | 3,565         | 0.1               | 0.9                   | 0.8                    | 22.1            | 23.1             | 2.6             | 27.5   | 1.6                                    |
| American Samoa              | 1,655         | -                 | 0.2                   | 5.1                    | 28.3            | 30.3             | ---             | ---    | ---                                    |
| Northern Marianas           | 1,449         | -                 | 0.3                   | -                      | 7.4             | 4.1              | ---             | ---    | 3.0                                    |

**Table A. Percent of Birth Records on Which Specified Items Were Not Stated: United States and Each State and territory, 2001 --Con.**

[By place of residence]

| Area                        | All births | Live-birth order | Length of gestation | Month prenatal care began | Number of prenatal visits | Birth weight | 5-minute apgar score | Medical risk factors |
|-----------------------------|------------|------------------|---------------------|---------------------------|---------------------------|--------------|----------------------|----------------------|
| Total of reporting areas 1/ | 4,025,933  | 0.3              | 1.0                 | 2.4                       | 3.1                       | 0.1          | 0.4                  | 0.9                  |
| Alabama                     | 60,454     | 0.0              | 0.1                 | 0.3                       | 0.3                       | 0.1          | 0.3                  | 0.0                  |
| Alaska                      | 10,003     | 2.1              | 0.4                 | 4.1                       | 7.2                       | 0.4          | 0.6                  | 2.7                  |
| Arizona                     | 85,597     | 0.3              | 0.1                 | 1.6                       | 2.9                       | 0.1          | 0.3                  | 0.0                  |
| Arkansas                    | 37,010     | 0.2              | 0.2                 | 1.8                       | 2.4                       | 0.1          | 3.3                  | 0.1                  |
| California                  | 527,759    | 0.1              | 2/5.9               | 1.6                       | 2.8                       | 0.0          | ---                  | 0.0                  |
| Colorado                    | 67,007     | 0.0              | 0.0                 | 1.6                       | 2.3                       | 0.0          | 0.3                  | 0.0                  |
| Connecticut                 | 42,648     | 0.7              | 0.2                 | 1.9                       | 4.1                       | 0.0          | 0.6                  | 2.4                  |
| Delaware                    | 10,749     | 0.1              | 0.1                 | 0.2                       | 0.4                       | 0.1          | 0.2                  | 0.0                  |
| District of Columbia        | 7,625      | 1.1              | 0.3                 | 14.3                      | 9.6                       | 0.0          | 1.0                  | -                    |
| Florida                     | 205,793    | 0.0              | 0.1                 | 1.2                       | 2.1                       | 0.1          | 0.2                  | 0.0                  |
| Georgia                     | 133,526    | 0.4              | 0.1                 | 4.4                       | 3.9                       | 0.0          | 0.4                  | 0.4                  |
| Hawaii                      | 17,072     | 0.0              | 0.7                 | 2.5                       | 2.5                       | 0.1          | 0.5                  | 0.4                  |
| Idaho                       | 20,688     | 0.2              | 0.5                 | 6.7                       | 4.2                       | 0.1          | 0.6                  | 0.4                  |
| Illinois                    | 184,064    | 0.1              | 0.2                 | 2.5                       | 2.7                       | 0.1          | 0.3                  | 0.0                  |
| Indiana                     | 86,459     | 0.1              | 0.1                 | 0.9                       | 2.2                       | 0.4          | 0.3                  | 0.1                  |
| Iowa                        | 37,619     | 0.0              | 0.1                 | 0.5                       | 1.4                       | 0.1          | 0.3                  | 0.1                  |
| Kansas                      | 38,869     | 0.0              | 0.1                 | 0.9                       | 1.1                       | 0.0          | 0.4                  | 3/0.2                |
| Kentucky                    | 54,658     | 0.0              | 0.1                 | 1.2                       | 1.5                       | 0.2          | 0.4                  | 4.6                  |
| Louisiana                   | 65,352     | 0.1              | 0.1                 | 0.4                       | 0.4                       | 0.0          | 0.3                  | 0.1                  |
| Maine                       | 13,759     | 0.4              | 0.1                 | 0.5                       | 0.7                       | 0.1          | 0.2                  | 0.1                  |
| Maryland                    | 73,218     | 0.2              | 0.4                 | 2.3                       | 3.4                       | 0.0          | 0.5                  | 0.0                  |
| Massachusetts               | 81,077     | 0.3              | 0.4                 | 1.5                       | 0.5                       | 0.4          | 0.4                  | 0.5                  |
| Michigan                    | 133,427    | 0.2              | 0.1                 | 1.9                       | 2.5                       | 0.1          | 0.3                  | 0.0                  |
| Minnesota                   | 67,562     | 0.5              | 0.5                 | 4.0                       | 4.8                       | 0.1          | 0.4                  | 8.2                  |
| Mississippi                 | 42,282     | 0.1              | 0.1                 | 0.6                       | 1.1                       | 0.0          | 0.2                  | 0.1                  |
| Missouri                    | 75,464     | 0.3              | 0.2                 | 2.2                       | 3.8                       | 0.1          | 0.5                  | 0.1                  |
| Montana                     | 10,970     | 0.0              | 0.1                 | 0.4                       | 0.3                       | 0.1          | 0.4                  | 0.0                  |
| Nebraska                    | 24,820     | 0.0              | 0.0                 | 0.4                       | 0.4                       | 0.0          | 0.1                  | 0.0                  |
| Nevada                      | 31,382     | 0.8              | 1.0                 | 4.1                       | 8.1                       | 0.0          | 1.1                  | 8.6                  |
| New Hampshire               | 14,656     | 0.2              | 0.2                 | 2.1                       | 1.9                       | 0.1          | 0.2                  | 0.0                  |
| New Jersey                  | 115,795    | 0.1              | 0.1                 | 3.9                       | 3.9                       | 0.1          | 0.3                  | 0.8                  |
| New Mexico                  | 27,128     | 1.4              | 0.2                 | 5.1                       | 5.1                       | 0.2          | 3.4                  | 0.0                  |
| New York                    | 254,026    | 0.3              | 0.1                 | 4.6                       | 2.9                       | 0.1          | 0.2                  | 2.3                  |
| North Carolina              | 118,185    | 0.0              | 0.0                 | 0.6                       | 0.6                       | 0.0          | 0.3                  | 0.0                  |
| North Dakota                | 7,629      | 0.0              | 0.1                 | 0.9                       | 0.7                       | 0.1          | 0.2                  | 0.2                  |
| Ohio                        | 151,570    | 1.1              | 0.0                 | 1.9                       | 2.9                       | 0.1          | 0.2                  | 0.0                  |
| Oklahoma                    | 50,118     | 0.7              | 0.1                 | 1.9                       | 0.7                       | 0.1          | 1.1                  | 1.4                  |
| Oregon                      | 45,322     | 0.0              | 0.0                 | 0.1                       | 0.2                       | 0.0          | 0.4                  | 0.7                  |
| Pennsylvania                | 143,495    | 0.5              | 0.4                 | 5.0                       | 6.4                       | 0.1          | 0.4                  | 0.1                  |
| Rhode Island                | 12,713     | 1.1              | 0.2                 | 2.6                       | 3.0                       | 0.1          | 0.3                  | 6.0                  |
| South Carolina              | 55,756     | 0.1              | 0.1                 | 0.9                       | 1.0                       | 0.0          | 0.2                  | 0.0                  |
| South Dakota                | 10,483     | -                | 0.0                 | 0.3                       | 0.3                       | 0.0          | 0.3                  | 0.0                  |
| Tennessee                   | 78,340     | 0.1              | 0.2                 | 1.8                       | 1.9                       | 0.0          | 0.2                  | 0.0                  |
| Texas                       | 365,410    | 1.1              | 0.9                 | 3.2                       | 6.7                       | 0.1          | ---                  | 6/1.2                |
| Utah                        | 47,959     | 0.3              | 0.1                 | 2.2                       | 2.8                       | 0.1          | 0.3                  | 0.1                  |
| Vermont                     | 6,366      | 0.5              | 0.2                 | 4.0                       | 2.2                       | 0.3          | 0.3                  | 0.3                  |
| Virginia                    | 98,884     | 0.0              | 0.0                 | 0.3                       | 1.1                       | 0.1          | 0.2                  | 0.0                  |
| Washington                  | 79,570     | 1.4              | 0.8                 | 8.2                       | 9.7                       | 0.3          | 0.6                  | 12.7                 |
| West Virginia               | 20,428     | 0.0              | 0.1                 | 3.4                       | 2.0                       | 0.1          | 0.3                  | 1.9                  |
| Wisconsin                   | 69,072     | 0.0              | 0.0                 | 0.3                       | 0.4                       | 0.0          | 0.4                  | 0.1                  |
| Wyoming                     | 6,115      | -                | 0.1                 | 0.4                       | 0.6                       | 0.0          | 0.2                  | 0.0                  |
| Puerto Rico                 | 55,866     | 0.0              | 0.1                 | 0.3                       | 0.1                       | 0.0          | 0.1                  | 0.0                  |
| Virgin Islands              | 1,669      | 1.3              | 0.6                 | 0.1                       | 2.0                       | 0.1          | 2.2                  | 2.5                  |
| Guam                        | 3,565      | 1.5              | 0.2                 | 1.7                       | 2.6                       | 0.2          | 0.9                  | 2.1                  |
| American Samoa              | 1,655      | -                | ---                 | ---                       | ---                       | -            | ---                  | ---                  |
| Northern Marianas           | 1,449      | 0.7              | 0.8                 | 2.0                       | 2.1                       | 0.6          | 1.5                  | ---                  |

**Table A. Percent of Birth Records on Which Specified Items Were Not Stated: United States and Each State and territory, 2001 --Con.**

[By place of residence]

| Area                        | All births | Tobacco use | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
|-----------------------------|------------|-------------|-------------|-------------|----------------------|--|--------------------|--------------------------------|----------------------|
| Total of reporting areas 1/ | 4,025,933  | 0.7         | 0.9         | 7.0         | 0.5                  | 0.6                                    | 0.5                | 1.0                            | 0.9                  |
| Alabama                     | 60,454     | 0.1         | 0.1         | 3.6         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.0                  |
| Alaska                      | 10,003     | 0.9         | 1.1         | 7.6         | 2.6                  | 2.8                                    | 0.5                | 2.3                            | 2.2                  |
| Arizona                     | 85,597     | 1.2         | 1.3         | 17.3        | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 11/0.3               |
| Arkansas                    | 37,010     | 0.7         | 0.8         | 7.7         | 0.1                  | 0.1                                    | 0.3                | 0.1                            | 0.1                  |
| California                  | 527,759    | ---         | ---         | ---         | 0.0                  | 0.0                                    | 0.0                | 0.0                            | 0.0                  |
| Colorado                    | 67,007     | 0.3         | 0.3         | 3.4         | 0.0                  | 0.0                                    | -                  | 0.0                            | 0.2                  |
| Connecticut                 | 42,648     | 1.0         | 1.1         | 6.9         | 2.3                  | 2.1                                    | 0.6                | 2.7                            | 2.8                  |
| Delaware                    | 10,749     | 0.1         | 0.1         | 0.8         | 0.0                  | -                                      | 0.0                | 0.0                            | -                    |
| District of Columbia        | 7,625      | 0.0         | 0.0         | 15.1        | -                    | -                                      | 0.1                | 0.0                            | -                    |
| Florida                     | 205,793    | 0.1         | 0.1         | 5.8         | 0.0                  | 0.0                                    | 0.7                | 0.0                            | 0.0                  |
| Georgia                     | 133,526    | 0.5         | 0.5         | 10.0        | 0.0                  | 0.0                                    | 0.5                | 0.0                            | 0.0                  |
| Hawaii                      | 17,072     | 0.1         | 0.1         | 14.4        | 0.2                  | 0.3                                    | 0.4                | 0.2                            | 0.2                  |
| Idaho                       | 20,688     | 0.6         | 0.7         | 10.9        | 0.3                  | 0.4                                    | 0.5                | 0.6                            | 0.7                  |
| Illinois                    | 184,064    | 0.2         | 0.1         | 4.3         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.1                  |
| Indiana                     | 86,459     | 4/0.2       | 0.2         | 2.8         | 0.0                  | 0.1                                    | 0.5                | 0.1                            | 0.1                  |
| Iowa                        | 37,619     | 0.1         | 0.1         | 0.7         | 0.0                  | 0.1                                    | 0.5                | 0.0                            | 0.1                  |
| Kansas                      | 38,869     | 0.2         | 0.2         | 0.2         | 0.1                  | 0.1                                    | 0.3                | 0.2                            | 0.2                  |
| Kentucky                    | 54,658     | 2.7         | 3.2         | 8.0         | 2.5                  | 4.7                                    | 3.2                | 6.8                            | 5.5                  |
| Louisiana                   | 65,352     | 0.1         | 0.1         | 5.6         | 0.1                  | 0.1                                    | 0.2                | 0.1                            | 0.1                  |
| Maine                       | 13,759     | 0.9         | 1.3         | 1.7         | 0.0                  | 0.1                                    | 0.2                | 0.1                            | 0.1                  |
| Maryland                    | 73,218     | 0.2         | 0.2         | 4.5         | 0.0                  | 0.0                                    | 0.2                | 0.0                            | 0.0                  |
| Massachusetts               | 81,077     | 0.3         | 0.2         | 0.8         | 0.5                  | 0.5                                    | 0.6                | 0.6                            | 0.9                  |
| Michigan                    | 133,427    | 1.1         | 1.1         | 7.7         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.0                  |
| Minnesota                   | 67,562     | 8.1         | 8.2         | 17.9        | 6.4                  | 8.1                                    | 2.6                | 9.2                            | 9.2                  |
| Mississippi                 | 42,282     | 0.3         | 0.3         | 5.6         | 0.0                  | 0.1                                    | 0.3                | 0.0                            | 0.0                  |
| Missouri                    | 75,464     | 0.4         | 0.4         | 3.1         | 0.1                  | 0.1                                    | 0.6                | 0.1                            | 0.1                  |
| Montana                     | 10,970     | 0.8         | 1.1         | 1.0         | 0.0                  | 0.0                                    | 0.3                | 0.0                            | 0.0                  |
| Nebraska                    | 24,820     | 0.0         | 0.0         | 1.6         | 0.0                  | 0.1                                    | 0.3                | 7/0.0                          | 0.0                  |
| Nevada                      | 31,382     | 1.6         | 1.6         | 7.7         | 1.5                  | 4.1                                    | 1.2                | 3.1                            | 7.8                  |
| New Hampshire               | 14,656     | 0.6         | 0.6         | 4.2         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.1                  |
| New Jersey                  | 115,795    | 0.7         | 0.8         | 5.8         | 0.1                  | 0.6                                    | 0.6                | 4.3                            | 2.1                  |
| New Mexico                  | 27,128     | 1.3         | 1.4         | 8.8         | 0.0                  | 0.0                                    | 0.5                | 0.0                            | ---                  |
| New York                    | 254,026    | 4/0.2       | 0.2         | 5.9         | 0.3                  | 0.5                                    | 0.4                | 8/2.3                          | 2.2                  |
| North Carolina              | 118,185    | 0.2         | 0.2         | 2.3         | 0.0                  | 0.0                                    | 0.5                | 0.0                            | 0.0                  |
| North Dakota                | 7,629      | 0.5         | 0.9         | 2.9         | 0.2                  | 0.1                                    | 1.8                | 0.2                            | 0.2                  |
| Ohio                        | 151,570    | 0.3         | 0.3         | 3.2         | 0.0                  | 0.0                                    | 0.6                | 0.0                            | 0.0                  |
| Oklahoma                    | 50,118     | 0.8         | 0.9         | 1.7         | 1.3                  | 1.6                                    | 1.6                | 2.9                            | 11/3.0               |
| Oregon                      | 45,322     | 0.8         | 0.8         | 1.9         | 0.0                  | 0.0                                    | 0.5                | 0.0                            | 0.0                  |
| Pennsylvania                | 143,495    | 0.9         | 1.0         | 11.1        | 0.0                  | 0.0                                    | 0.0                | 0.1                            | 0.0                  |
| Rhode Island                | 12,713     | 1.7         | 1.8         | 13.2        | 6.2                  | 6.0                                    | 0.4                | 10.8                           | 10.9                 |
| South Carolina              | 55,756     | 0.1         | 0.1         | 1.6         | 0.0                  | 0.0                                    | 0.7                | 0.0                            | 0.0                  |
| South Dakota                | 10,483     | 5/0.1       | 5/0.2       | 1.1         | -                    | 0.0                                    | 0.3                | 0.0                            | 0.0                  |
| Tennessee                   | 78,340     | 0.2         | 0.2         | 9.3         | 0.0                  | 0.0                                    | 0.5                | 0.0                            | 0.0                  |
| Texas                       | 365,410    | 1.1         | 1.1         | 12.6        | 0.0                  | 9/0.0                                  | 0.7                | 7/0.0                          | 0.1                  |
| Utah                        | 47,959     | 0.7         | 0.7         | 4.1         | 0.0                  | 0.0                                    | 0.0                | 0.1                            | 0.1                  |
| Vermont                     | 6,366      | 0.9         | 0.5         | 2.7         | 0.3                  | 0.3                                    | 0.1                | 0.3                            | 0.3                  |
| Virginia                    | 98,884     | 0.0         | 0.0         | 3.6         | 0.0                  | 0.0                                    | 0.3                | 0.2                            | 0.0                  |
| Washington                  | 79,570     | 2.5         | 9.7         | 23.8        | 10.1                 | 11.9                                   | 0.4                | 12.4                           | 12.5                 |
| West Virginia               | 20,428     | 0.8         | 1.4         | 9.1         | 0.2                  | 1.0                                    | 0.3                | 3.1                            | 0.7                  |
| Wisconsin                   | 69,072     | 0.1         | 0.1         | 2.2         | 0.0                  | 0.1                                    | 0.0                | 10/0.1                         | 0.1                  |
| Wyoming                     | 6,115      | 0.2         | 0.2         | 1.8         | -                    | -                                      | 0.0                | -                              | 0.0                  |
| Puerto Rico                 | 55,866     | 0.0         | 0.0         | 0.1         | 0.1                  | 0.1                                    | 0.0                | 0.0                            | 0.1                  |
| Virgin Islands              | 1,669      | 0.4         | 0.5         | 16.2        | 1.4                  | 2.9                                    | 0.9                | 4.4                            | 3.8                  |
| Guam                        | 3,565      | 0.5         | 0.6         | 4.8         | 1.1                  | 3.2                                    | 0.4                | 2.3                            | 2.2                  |
| American Samoa              | 1,655      | ---         | ---         | ---         | ---                  | ---                                    | ---                | ---                            | ---                  |
| Northern Marianas           | 1,449      | 5/0.6       | 5/0.6       | ---         | ---                  | ---                                    | 1.6                | ---                            | ---                  |

0.0 Quantity more than zero but less than 0.05.

- Quantity zero.

--- Data not available.

1/ Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

2/ California reports date last normal menses began but does not report clinical estimate of gestation.

3/ Kansas does not report Rh sensitization.

4/ Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

5/ South Dakota and the Commonwealth of the Northern Marianas report tobacco and alcohol use but do not report the average number of cigarettes smoked per day or the average number of drinks per week.

6/ Texas does not report genital herpes or uterine bleeding.

7/ Nebraska and Texas do not report birth injury.

8/ New York City does not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more.

9/ Texas does not report anesthetic complications and fetal distress.

10/ Wisconsin does not report fetal alcohol syndrome.

11/ Rates of "Other central nervous system anomalies" may be overstated for Arizona and Oklahoma for 2001.

**Table B. Births by State of occurrence and residence for births occurring in the 50 States and the District of Columbia, 2001**

| Area  | Occurrence | Residence |
|---|------------|-----------|
| United States                                       | 4,031,531  | 4,025,933 |
| Alabama   | 59,766     | 60,454    |
| Alaska  | 9,907      | 10,003    |
| Arizona   | 85,757     | 85,597    |
| Arkansas  | 36,301     | 37,010    |
| California  | 528,539    | 527,759   |
| Colorado  | 67,100     | 67,007    |
| Connecticut   | 43,179     | 42,648    |
| Delaware  | 11,360     | 10,749    |
| District of Columbia                                | 15,037     | 7,625     |
| Florida   | 205,991    | 205,793   |
| Georgia   | 134,402    | 133,526   |
| Hawaii  | 17,127     | 17,072    |
| Idaho   | 20,161     | 20,688    |
| Illinois  | 181,086    | 184,064   |
| Indiana   | 86,710     | 86,459    |
| Iowa  | 37,756     | 37,619    |
| Kansas  | 39,052     | 38,869    |
| Kentucky  | 53,227     | 54,658    |
| Louisiana   | 65,620     | 65,352    |
| Maine   | 13,567     | 13,759    |
| Maryland  | 68,663     | 73,218    |
| Massachusetts                                       | 82,237     | 81,077    |
| Michigan  | 132,159    | 133,427   |
| Minnesota   | 67,428     | 67,562    |
| Mississippi   | 41,145     | 42,282    |
| Missouri  | 76,690     | 75,464    |
| Montana   | 10,935     | 10,970    |
| Nebraska  | 25,107     | 24,820    |
| Nevada  | 31,007     | 31,382    |
| New Hampshire                                       | 14,055     | 14,656    |
| New Jersey  | 112,639    | 115,795   |
| New Mexico  | 26,808     | 27,128    |
| New York State only                                 | 131,017    | 134,408   |
| New York City only                                  | 124,012    | 119,618   |
| North Carolina                                      | 119,132    | 118,185   |
| North Dakota  | 8,839      | 7,629     |
| Ohio  | 152,033    | 151,570   |
| Oklahoma  | 48,895     | 50,118    |
| Oregon  | 46,200     | 45,322    |
| Pennsylvania  | 143,957    | 143,495   |
| Rhode Island  | 13,319     | 12,713    |
| South Carolina                                      | 53,255     | 55,756    |
| South Dakota  | 10,784     | 10,483    |
| Tennessee   | 83,521     | 78,340    |
| Texas   | 370,482    | 365,410   |
| Utah  | 49,041     | 47,959    |
| Vermont   | 6,149      | 6,366     |
| Virginia  | 96,535     | 98,884    |
| Washington  | 79,078     | 79,570    |
| West Virginia                                       | 21,000     | 20,428    |
| Wisconsin   | 68,006     | 69,072    |
| Wyoming   | 5,758      | 6,115     |
| Occurrence in U.S. Territories or Foreign Countries | -          | 5,598     |
| Puerto Rico   | -          | 18        |
| Virgin Islands                                      | -          | 43        |
| Guam  | -          | 5         |
| American Samoa                                      | -          | -         |
| Northern Marianas                                   | -          | -         |
| Canada  | -          | 206       |
| Cuba  | -          | 1         |
| Mexico  | -          | 4,706     |
| Remainder of world                                  | -          | 619       |

- Quantity zero.

**Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births,  $B$**

| $B$ | $L(1 - \alpha = .95, B)$ | $U(1 - \alpha = .95, B)$ | $L(1 - \alpha = .96, B)$ | $U(1 - \alpha = .96, B)$ |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|
| 1   | 0.02532                  | 5.57164                  | 0.02020                  | 5.83392                  |
| 2   | 0.12110                  | 3.61234                  | 0.10735                  | 3.75830                  |
| 3   | 0.20622                  | 2.92242                  | 0.18907                  | 3.02804                  |
| 4   | 0.27247                  | 2.56040                  | 0.25406                  | 2.64510                  |
| 5   | 0.32470                  | 2.33367                  | 0.30591                  | 2.40540                  |
| 6   | 0.36698                  | 2.17658                  | 0.34819                  | 2.23940                  |
| 7   | 0.40205                  | 2.06038                  | 0.38344                  | 2.11666                  |
| 8   | 0.43173                  | 1.97040                  | 0.41339                  | 2.02164                  |
| 9   | 0.45726                  | 1.89831                  | 0.43923                  | 1.94553                  |
| 10  | 0.47954                  | 1.83904                  | 0.46183                  | 1.88297                  |
| 11  | 0.49920                  | 1.78928                  | 0.48182                  | 1.83047                  |
| 12  | 0.51671                  | 1.74680                  | 0.49966                  | 1.78566                  |
| 13  | 0.53246                  | 1.71003                  | 0.51571                  | 1.74688                  |
| 14  | 0.54671                  | 1.67783                  | 0.53027                  | 1.71292                  |
| 15  | 0.55969                  | 1.64935                  | 0.54354                  | 1.68289                  |
| 16  | 0.57159                  | 1.62394                  | 0.55571                  | 1.65610                  |
| 17  | 0.58254                  | 1.60110                  | 0.56692                  | 1.63203                  |
| 18  | 0.59266                  | 1.58043                  | 0.57730                  | 1.61024                  |
| 19  | 0.60207                  | 1.56162                  | 0.58695                  | 1.59042                  |
| 20  | 0.61083                  | 1.54442                  | 0.59594                  | 1.57230                  |
| 21  | 0.61902                  | 1.52861                  | 0.60435                  | 1.55563                  |
| 22  | 0.62669                  | 1.51401                  | 0.61224                  | 1.54026                  |
| 23  | 0.63391                  | 1.50049                  | 0.61966                  | 1.52602                  |
| 24  | 0.64072                  | 1.48792                  | 0.62666                  | 1.51278                  |
| 25  | 0.64715                  | 1.47620                  | 0.63328                  | 1.50043                  |
| 26  | 0.65323                  | 1.46523                  | 0.63954                  | 1.48888                  |
| 27  | 0.65901                  | 1.45495                  | 0.64549                  | 1.47805                  |
| 28  | 0.66449                  | 1.44528                  | 0.65114                  | 1.46787                  |
| 29  | 0.66972                  | 1.43617                  | 0.65652                  | 1.45827                  |
| 30  | 0.67470                  | 1.42756                  | 0.66166                  | 1.44922                  |
| 31  | 0.67945                  | 1.41942                  | 0.66656                  | 1.44064                  |
| 32  | 0.68400                  | 1.41170                  | 0.67125                  | 1.43252                  |
| 33  | 0.68835                  | 1.40437                  | 0.67575                  | 1.42480                  |
| 34  | 0.69253                  | 1.39740                  | 0.68005                  | 1.41746                  |
| 35  | 0.69654                  | 1.39076                  | 0.68419                  | 1.41047                  |
| 36  | 0.70039                  | 1.38442                  | 0.68817                  | 1.40380                  |
| 37  | 0.70409                  | 1.37837                  | 0.69199                  | 1.39743                  |
| 38  | 0.70766                  | 1.37258                  | 0.69568                  | 1.39134                  |
| 39  | 0.71110                  | 1.36703                  | 0.69923                  | 1.38550                  |
| 40  | 0.71441                  | 1.36172                  | 0.70266                  | 1.37991                  |
| 41  | 0.71762                  | 1.35661                  | 0.70597                  | 1.37454                  |
| 42  | 0.72071                  | 1.35171                  | 0.70917                  | 1.36938                  |
| 43  | 0.72370                  | 1.34699                  | 0.71227                  | 1.36442                  |
| 44  | 0.72660                  | 1.34245                  | 0.71526                  | 1.35964                  |
| 45  | 0.72941                  | 1.33808                  | 0.71816                  | 1.35504                  |
| 46  | 0.73213                  | 1.33386                  | 0.72098                  | 1.35060                  |
| 47  | 0.73476                  | 1.32979                  | 0.72370                  | 1.34632                  |
| 48  | 0.73732                  | 1.32585                  | 0.72635                  | 1.34218                  |
| 49  | 0.73981                  | 1.32205                  | 0.72892                  | 1.33818                  |
| 50  | 0.74222                  | 1.31838                  | 0.73142                  | 1.33431                  |

**Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births,  $B$  --Con.**

| $B$ | $L(1 - \alpha = .95, B)$ | $U(1 - \alpha = .95, B)$ | $L(1 - \alpha = .96, B)$ | $U(1 - \alpha = .96, B)$ |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|
| 51  | 0.74457                  | 1.31482                  | 0.73385                  | 1.33057                  |
| 52  | 0.74685                  | 1.31137                  | 0.73621                  | 1.32694                  |
| 53  | 0.74907                  | 1.30802                  | 0.73851                  | 1.32342                  |
| 54  | 0.75123                  | 1.30478                  | 0.74075                  | 1.32002                  |
| 55  | 0.75334                  | 1.30164                  | 0.74293                  | 1.31671                  |
| 56  | 0.75539                  | 1.29858                  | 0.74506                  | 1.31349                  |
| 57  | 0.75739                  | 1.29562                  | 0.74713                  | 1.31037                  |
| 58  | 0.75934                  | 1.29273                  | 0.74916                  | 1.30734                  |
| 59  | 0.76125                  | 1.28993                  | 0.75113                  | 1.30439                  |
| 60  | 0.76311                  | 1.28720                  | 0.75306                  | 1.30152                  |
| 61  | 0.76492                  | 1.28454                  | 0.75494                  | 1.29873                  |
| 62  | 0.76669                  | 1.28195                  | 0.75678                  | 1.29601                  |
| 63  | 0.76843                  | 1.27943                  | 0.75857                  | 1.29336                  |
| 64  | 0.77012                  | 1.27698                  | 0.76033                  | 1.29077                  |
| 65  | 0.77178                  | 1.27458                  | 0.76205                  | 1.28826                  |
| 66  | 0.77340                  | 1.27225                  | 0.76373                  | 1.28580                  |
| 67  | 0.77499                  | 1.26996                  | 0.76537                  | 1.28340                  |
| 68  | 0.77654                  | 1.26774                  | 0.76698                  | 1.28106                  |
| 69  | 0.77806                  | 1.26556                  | 0.76856                  | 1.27877                  |
| 70  | 0.77955                  | 1.26344                  | 0.77011                  | 1.27654                  |
| 71  | 0.78101                  | 1.26136                  | 0.77162                  | 1.27436                  |
| 72  | 0.78244                  | 1.25933                  | 0.77310                  | 1.27223                  |
| 73  | 0.78384                  | 1.25735                  | 0.77456                  | 1.27014                  |
| 74  | 0.78522                  | 1.25541                  | 0.77598                  | 1.26810                  |
| 75  | 0.78656                  | 1.25351                  | 0.77738                  | 1.26610                  |
| 76  | 0.78789                  | 1.25165                  | 0.77876                  | 1.26415                  |
| 77  | 0.78918                  | 1.24983                  | 0.78010                  | 1.26223                  |
| 78  | 0.79046                  | 1.24805                  | 0.78143                  | 1.26036                  |
| 79  | 0.79171                  | 1.24630                  | 0.78272                  | 1.25852                  |
| 80  | 0.79294                  | 1.24459                  | 0.78400                  | 1.25672                  |
| 81  | 0.79414                  | 1.24291                  | 0.78525                  | 1.25496                  |
| 82  | 0.79533                  | 1.24126                  | 0.78648                  | 1.25323                  |
| 83  | 0.79649                  | 1.23965                  | 0.78769                  | 1.25153                  |
| 84  | 0.79764                  | 1.23807                  | 0.78888                  | 1.24987                  |
| 85  | 0.79876                  | 1.23652                  | 0.79005                  | 1.24824                  |
| 86  | 0.79987                  | 1.23499                  | 0.79120                  | 1.24664                  |
| 87  | 0.80096                  | 1.23350                  | 0.79233                  | 1.24507                  |
| 88  | 0.80203                  | 1.23203                  | 0.79344                  | 1.24352                  |
| 89  | 0.80308                  | 1.23059                  | 0.79453                  | 1.24201                  |
| 90  | 0.80412                  | 1.22917                  | 0.79561                  | 1.24052                  |
| 91  | 0.80514                  | 1.22778                  | 0.79667                  | 1.23906                  |
| 92  | 0.80614                  | 1.22641                  | 0.79771                  | 1.23762                  |
| 93  | 0.80713                  | 1.22507                  | 0.79874                  | 1.23621                  |
| 94  | 0.80810                  | 1.22375                  | 0.79975                  | 1.23482                  |
| 95  | 0.80906                  | 1.22245                  | 0.80074                  | 1.23345                  |
| 96  | 0.81000                  | 1.22117                  | 0.80172                  | 1.23211                  |
| 97  | 0.81093                  | 1.21992                  | 0.80269                  | 1.23079                  |
| 98  | 0.81185                  | 1.21868                  | 0.80364                  | 1.22949                  |
| 99  | 0.81275                  | 1.21746                  | 0.80458                  | 1.22822                  |

**Table D. Sources for resident population and population including Armed Forces abroad: Birth- and death-registration States, 1900-32, and United States, 1900-2001.**

| Year      | Source   |
|-----------|--|
| 2001      | U.S. Census Bureau. Monthly National Population Estimates. Washington, DC: U.S. Census Bureau. Internet release, November 26, 2002. <a href="http://eire.census.gov/popest/data/national/tables/NA-EST2001-04.php">Http://eire.census.gov/popest/data/national/tables/NA-EST2001-04.php</a>  |
| 2000      | U.S. Census Bureau. Monthly National Population Estimates. Washington, DC: U.S. Census Bureau. Internet release, November 26, 2002. <a href="http://eire.census.gov/popest/data/national/tables/NA-EST2001-04.php">Http://eire.census.gov/popest/data/national/tables/NA-EST2001-04.php</a>  |
| 1999      | U.S. Census Bureau, United States population estimates, by age, sex, race, and Hispanic origin: 1980 to 1999. Washington: U.S. Bureau of the Census. Internet release, April 11, 2000. <a href="http://www.census.gov/population/www/estimates/nat_90s_1.html">Http://www.census.gov/population/www/estimates/nat_90s_1.html</a> . |
| 1998      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1998. Washington: U.S. Bureau of the Census. Internet release, June 4, 1999. <a href="http://www.census.gov/population/www/estimates/uspop.html">Http://www.census.gov/population/www/estimates/uspop.html</a> .    |
| 1997      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1997. PPL-91R. Rounded populations consistent with U.S. Bureau of the Census file NESTV97. Washington: U.S. Department of Commerce. 1998.   |
| 1996      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1996. PPL-57. Washington: U.S. Department of Commerce. 1997.  |
| 1995      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1995. Census file RESD0795, PPL-41. Washington: U.S. Department of Commerce. 1996.  |
| 1994      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1994. PPL-21. Washington: U.S. Department of Commerce. 1995.  |
| 1993      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1993. Census file RESO793. Washington: U.S. Department of Commerce. 1995.   |
| 1992      | U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1992. Census file RESPO792. Washington: U.S. Department of Commerce. 1994.  |
| 1991      | U.S. Bureau of the Census, Unpublished data consistent with Current Population Reports, Series P-25, No. 1095, Feb. 1993.  |
| 1990      | U.S. Bureau of the Census, Unpublished data from the 1990 census. 1990 CPH-L-74 and unpublished data consistent with Current Population Reports, Series P-25, No. 1095, Feb. 1993.   |
| 1989      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1057, Mar. 1990.   |
| 1988      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1045, Jan. 1990.   |
| 1986-87   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1022, Mar. 1988.   |
| 1985      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1000, Feb. 1987.   |
| 1984      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 985, Apr. 1986.  |
| 1983      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 965, Mar. 1985.  |
| 1982      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 949, May 1984.   |
| 1981      | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 929, May 1983.   |
| 1980      | U.S. Bureau of the Census, U.S. Census of Population: 1980, Number of Inhabitants, PC80-1-A1, United States Summary, 1983.   |
| 1971-79   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 917, July 1982.  |
| 1970      | U.S. Bureau of the Census, U.S. Census of Population: 1970, Number of Inhabitants, Final Report PC(1)-A1, United States Summary, 1971.   |
| 1961-69   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 519, April 1974.   |
| 1960      | U.S. Bureau of the Census, U.S. Census of Population: 1960, Number of Inhabitants, PC(1)-A1, United States Summary, 1964.  |
| 1951-59   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 310, June 30, 1965.  |
| 1940-50   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 499, May 1973.   |
| 1930-39   | U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 499, May 1973, and National Office of Vital Statistics, Vital Statistics Rates in the United States, 1900-1940, 1947.  |
| 1920-29   | National Office of Vital Statistics, Vital Statistics Rates in the United States, 1900-1940, 1947.   |
| 1917-19   | Same as for 1930-39.   |
| 1900-1916 | Same as for 1920-29.   |

**Table E. Ratio of census-level resident population to resident population adjusted for estimated net census undercount by age, sex, and race: United States, April 1, 1990**

| Age               | Total      |        |        | White      |        |        | Black      |        |        |
|-------------------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
|                   | Both sexes | Male   | Female | Both sexes | Male   | Female | Both sexes | Male   | Female |
| All ages          | 0.9815     | 0.9721 | 0.9906 | 0.9802     | 0.9728 | 0.9873 | 0.9432     | 0.9151 | 0.9699 |
| 10-14             | 0.9882     | 0.9891 | 0.9873 | 0.9830     | 0.9841 | 0.9818 | 0.9591     | 0.9586 | 0.9595 |
| 15-19             | 1.0166     | 1.0198 | 1.0133 | 1.0094     | 1.0128 | 1.0059 | 0.9988     | 1.0016 | 0.9959 |
| 20-24             | 1.0002     | 0.9987 | 1.0017 | 0.9975     | 0.9985 | 0.9966 | 0.9593     | 0.9432 | 0.9753 |
| 25-29             | 0.9591     | 0.9439 | 0.9748 | 0.9558     | 0.9441 | 0.9681 | 0.9123     | 0.8732 | 0.9510 |
| 30-34             | 0.9687     | 0.9487 | 0.9892 | 0.9669     | 0.9518 | 0.9828 | 0.9129     | 0.8599 | 0.9651 |
| 35-39             | 0.9790     | 0.9628 | 0.9954 | 0.9764     | 0.9643 | 0.9888 | 0.9303     | 0.8808 | 0.9778 |
| 40-44             | 0.9901     | 0.9758 | 1.0044 | 0.9875     | 0.9764 | 0.9988 | 0.9410     | 0.8943 | 0.9850 |
| 45-49             | 0.9775     | 0.9633 | 0.9916 | 0.9762     | 0.9648 | 0.9877 | 0.9302     | 0.8807 | 0.9762 |
| 50-54             | ...        | 0.9623 | ...    | ...        | 0.9651 | ...    | ...        | 0.8802 | ...    |
| 55 years and over | ...        | 0.9758 | ...    | ...        | 0.9783 | ...    | ...        | 0.9294 | ...    |
| 15-44             | ...        | ...    | 0.9954 | ...        | ...    | 0.9890 | ...        | ...    | 0.9739 |
| 15-54             | ...        | 0.9710 | ...    | ...        | 0.9710 | ...    | ...        | 0.9046 | ...    |

... Category not applicable.

**Table 4-1. Population of birth- and death-registration States, 1900-32, and United States, 1900-2001**

[Population enumerated as of April 1 for 1940, 1950, 1960, 1970, 1980, 1990, and 2000 and estimated as of July 1 for all other years]

| Year   | United States/1                          |                             | Year | United States/1                          |                             | Birth-registration States |                             | Death-registration States |                             |
|--------|--|-----------------------------|------|--|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
|        | Population including Armed Forces abroad | Population residing in area |      | Population including Armed Forces abroad | Population residing in area | Number of States/2        | Population residing in area | Number of States/2        | Population residing in area |
| 2001   | 285,024,000                              | 284,796,887                 | 1950 | 151,132,000                              | 150,697,361                 | ...                       | ...                         | ...                       | ...                         |
| 2000   | 281,652,000                              | 281,421,906                 | 1949 | 149,188,000                              | 148,665,000                 | ...                       | ...                         | ...                       | ...                         |
| 1999/3 | 272,945,300                              | 272,690,813                 | 1948 | 146,631,000                              | 146,093,000                 | ...                       | ...                         | ...                       | ...                         |
| 1998/3 | 270,509,187                              | 270,298,524                 | 1947 | 144,126,000                              | 143,446,000                 | ...                       | ...                         | ...                       | ...                         |
| 1997/3 | 267,901,000                              | 267,636,061                 | 1946 | 141,389,000                              | 140,054,000                 | ...                       | ...                         | ...                       | ...                         |
| 1996/3 | 265,556,890                              | 265,283,783                 | 1945 | 139,928,000                              | 132,481,000                 | ...                       | ...                         | ...                       | ...                         |
| 1995/3 | 263,033,968                              | 262,755,270                 | 1944 | 138,397,000                              | 132,885,000                 | ...                       | ...                         | ...                       | ...                         |
| 1994/3 | 260,650,690                              | 260,340,990                 | 1943 | 136,739,000                              | 134,245,000                 | ...                       | ...                         | ...                       | ...                         |
| 1993/3 | 258,119,768                              | 257,783,004                 | 1942 | 134,860,000                              | 133,920,000                 | ...                       | ...                         | ...                       | ...                         |
| 1992/3 | 255,457,501                              | 255,077,536                 | 1941 | 133,402,000                              | 133,121,000                 | ...                       | ...                         | ...                       | ...                         |
| 1991/3 | 252,688,000                              | 252,177,000                 | 1940 | 131,820,000                              | 131,669,275                 | ...                       | ...                         | ...                       | ...                         |
| 1990   | 249,225,000                              | 248,709,873                 | 1939 | 131,028,000                              | 130,879,718                 | ...                       | ...                         | ...                       | ...                         |
| 1989   | 247,342,000                              | 246,819,000                 | 1938 | 129,969,000                              | 129,824,939                 | ...                       | ...                         | ...                       | ...                         |
| 1988   | 245,021,000                              | 244,499,000                 | 1937 | 128,961,000                              | 128,824,829                 | ...                       | ...                         | ...                       | ...                         |
| 1987   | 242,804,000                              | 242,289,000                 | 1936 | 128,181,000                              | 128,053,180                 | ...                       | ...                         | ...                       | ...                         |
| 1986   | 240,651,000                              | 240,133,000                 | 1935 | 127,362,000                              | 127,250,232                 | ...                       | ...                         | ...                       | ...                         |
| 1985   | 238,466,000                              | 237,924,000                 | 1934 | 126,485,000                              | 126,373,773                 | ...                       | ...                         | ...                       | ...                         |
| 1984   | 236,348,000                              | 235,825,000                 | 1933 | 125,690,000                              | 125,578,763                 | ...                       | ...                         | ...                       | ...                         |
| 1983   | 234,307,000                              | 233,792,000                 | 1932 | 124,949,000                              | 124,840,471                 | 47                        | 118,903,899                 | 47                        | 118,903,899                 |
| 1982   | 232,188,000                              | 231,664,000                 | 1931 | 124,149,000                              | 124,039,648                 | 46                        | 117,455,229                 | 47                        | 118,148,987                 |
| 1981   | 229,966,000                              | 229,466,000                 | 1930 | 123,188,000                              | 123,076,741                 | 46                        | 116,544,946                 | 47                        | 117,238,278                 |
| 1980   | 227,061,000                              | 226,545,805                 | 1929 | ---                                      | 121,769,939                 | 46                        | 115,317,450                 | 46                        | 115,317,450                 |
| 1979   | 225,055,000                              | 224,567,000                 | 1928 | ---                                      | 120,501,115                 | 44                        | 113,636,160                 | 44                        | 113,636,160                 |
| 1978   | 222,585,000                              | 222,095,000                 | 1927 | ---                                      | 119,038,062                 | 40                        | 104,320,830                 | 42                        | 107,084,532                 |
| 1977   | 220,239,000                              | 219,760,000                 | 1926 | ---                                      | 117,399,225                 | 35                        | 90,400,590                  | 41                        | 103,822,683                 |
| 1976   | 218,035,000                              | 217,563,000                 | 1925 | ---                                      | 115,831,963                 | 33                        | 88,294,564                  | 40                        | 102,031,555                 |
| 1975   | 215,973,000                              | 215,465,000                 | 1924 | ---                                      | 114,113,463                 | 33                        | 87,000,295                  | 39                        | 99,318,098                  |
| 1974   | 213,854,000                              | 213,342,000                 | 1923 | ---                                      | 111,949,945                 | 30                        | 81,072,123                  | 38                        | 96,788,197                  |
| 1973   | 211,909,000                              | 211,357,000                 | 1922 | ---                                      | 110,054,778                 | 30                        | 79,560,746                  | 37                        | 92,702,901                  |
| 1972   | 209,896,000                              | 209,284,000                 | 1921 | ---                                      | 108,541,489                 | 27                        | 70,807,090                  | 34                        | 87,814,447                  |
| 1971   | 207,661,000                              | 206,827,000                 | 1920 | ---                                      | 106,466,420                 | 23                        | 63,597,307                  | 34                        | 86,079,263                  |
| 1970   | 204,270,000                              | 203,211,926                 | 1919 | 105,063,000                              | 104,512,110                 | 22                        | 61,212,076                  | 33                        | 83,157,982                  |
| 1969   | 202,677,000                              | 201,385,000                 | 1918 | 104,550,000                              | 103,202,801                 | 20                        | 55,153,782                  | 30                        | 79,008,412                  |
| 1968   | 200,706,000                              | 199,399,000                 | 1917 | 103,414,000                              | 103,265,913                 | 20                        | 55,197,952                  | 27                        | 70,234,775                  |
| 1967   | 198,712,000                              | 197,457,000                 | 1916 | ---                                      | 101,965,984                 | 11                        | 32,944,013                  | 26                        | 66,971,177                  |
| 1966   | 196,560,000                              | 195,576,000                 | 1915 | ---                                      | 100,549,013                 | 10                        | 31,096,697                  | 24                        | 61,894,847                  |
| 1965   | 194,303,000                              | 193,526,000                 | 1914 | ---                                      | 99,117,567                  | ...                       | ...                         | 24                        | 60,963,309                  |
| 1964   | 191,889,000                              | 191,141,000                 | 1913 | ---                                      | 97,226,814                  | ...                       | ...                         | 23                        | 58,156,740                  |
| 1963   | 189,242,000                              | 188,483,000                 | 1912 | ---                                      | 95,331,300                  | ...                       | ...                         | 22                        | 54,847,700                  |
| 1962   | 186,538,000                              | 185,771,000                 | 1911 | ---                                      | 93,867,814                  | ...                       | ...                         | 22                        | 53,929,644                  |
| 1961   | 183,691,000                              | 182,992,000                 | 1910 | ---                                      | 92,406,536                  | ...                       | ...                         | 20                        | 47,470,437                  |
| 1960   | 179,933,000                              | 179,323,175                 | 1909 | ---                                      | 90,491,525                  | ...                       | ...                         | 18                        | 44,223,513                  |
| 1959   | 177,264,000                              | 176,513,000                 | 1908 | ---                                      | 88,708,976                  | ...                       | ...                         | 17                        | 38,634,759                  |
| 1958   | 174,141,000                              | 173,320,000                 | 1907 | ---                                      | 87,000,271                  | ...                       | ...                         | 15                        | 34,552,837                  |
| 1957   | 171,274,000                              | 170,371,000                 | 1906 | ---                                      | 85,436,556                  | ...                       | ...                         | 15                        | 33,782,288                  |
| 1956   | 168,221,000                              | 167,306,000                 | 1905 | ---                                      | 83,819,666                  | ...                       | ...                         | 10                        | 21,767,980                  |
| 1955   | 165,275,000                              | 164,308,000                 | 1904 | ---                                      | 82,164,974                  | ...                       | ...                         | 10                        | 21,332,076                  |
| 1954   | 162,391,000                              | 161,164,000                 | 1903 | ---                                      | 80,632,152                  | ...                       | ...                         | 10                        | 20,943,222                  |
| 1953   | 159,565,000                              | 158,242,000                 | 1902 | ---                                      | 79,160,196                  | ...                       | ...                         | 10                        | 20,582,907                  |
| 1952   | 156,954,000                              | 155,687,000                 | 1901 | ---                                      | 77,585,128                  | ...                       | ...                         | 10                        | 20,237,453                  |
| 1951   | 154,287,000                              | 153,310,000                 | 1900 | ---                                      | 76,094,134                  | ...                       | ...                         | 10                        | 19,965,446                  |

--- Data not available.

... Category not applicable.

1/ Alaska included beginning 1959 and Hawaii, 1960.

2/ The District of Columbia is not included in "Number of States," but it is represented in all data shown for each year.

3/ Population projected from the 1990 Census.

SOURCE: Published and unpublished data from the U.S. Bureau of the Census; see text and table D.

**Table 4-2. Estimated total population by specified Hispanic origin and estimated female population by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 2001**

[Populations estimated as of July 1]

| Age               | Hispanic   |         |              |       |                   | Non-Hispanic |             |            |
|-------------------|------------|---------|--------------|-------|-------------------|--------------|-------------|------------|
|                   | Total      | Mexican | Puerto Rican | Cuban | Other Hispanic 1/ | Total 2/     | White       | Black      |
| Total population  | 36,972,219 | ---     | ---          | ---   | ---               | 247,824,668  | 198,036,588 | 35,629,549 |
| Female population |            |         |              |       |                   |              |             |            |
| 15-44 years       | 8,872,357  | ---     | ---          | ---   | ---               | 52,800,344   | 40,652,518  | 8,566,914  |
| 10-14 years       | 1,645,512  | ---     | ---          | ---   | ---               | 8,539,686    | 6,413,270   | 1,617,050  |
| 15-19 years       | 1,503,868  | ---     | ---          | ---   | ---               | 8,340,113    | 6,337,392   | 1,477,675  |
| 15-17 years       | 892,070    | ---     | ---          | ---   | ---               | 5,000,420    | 3,803,604   | 890,470    |
| 18-19 years       | 611,798    | ---     | ---          | ---   | ---               | 3,339,693    | 2,533,788   | 587,205    |
| 20-24 years       | 1,580,956  | ---     | ---          | ---   | ---               | 8,038,274    | 6,056,019   | 1,421,177  |
| 25-29 years       | 1,622,931  | ---     | ---          | ---   | ---               | 7,710,278    | 5,762,492   | 1,313,060  |
| 30-34 years       | 1,540,556  | ---     | ---          | ---   | ---               | 8,719,969    | 6,686,569   | 1,392,172  |
| 35-39 years       | 1,418,573  | ---     | ---          | ---   | ---               | 9,719,751    | 7,605,075   | 1,490,954  |
| 40-44 years       | 1,205,473  | ---     | ---          | ---   | ---               | 10,271,959   | 8,204,971   | 1,471,876  |
| 45-49 years       | 958,473    | ---     | ---          | ---   | ---               | 9,585,646    | 7,766,096   | 1,278,267  |

--- Data not available.

1/ Includes Central and South American and other and unknown Hispanic.

2/ Includes races other than white and black.

SOURCE: National Center for Health Statistics. Estimates of the July 1, 2001, United States population by age, sex, race, and Hispanic origin. Washington, DC: U.S. Census Bureau. 2002.

**Table 4-3. Estimated population of the United States, by age, race, and sex: July 1, 2001**

[Figures include Armed Forces stationed in the United States but excludes those stationed outside the United States]

| Age         | All races   |             |             | White       |             |             | Black      |            |            | American Indian |           |           | Asian and Pacific Islander |           |           |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-----------------|-----------|-----------|----------------------------|-----------|-----------|
|             | Both sexes  | Male        | Female      | Both sexes  | Male        | Female      | Both sexes | Male       | Female     | Both sexes      | Male      | Female    | Both sexes                 | Male      | Female    |
| All ages    | 284,796,887 | 139,813,108 | 144,983,779 | 232,351,696 | 114,659,071 | 117,692,625 | 37,196,779 | 17,710,410 | 19,486,369 | 3,054,311       | 1,524,362 | 1,529,949 | 12,194,101                 | 5,919,265 | 6,274,836 |
| Under 1     | 4,033,748   | 2,064,258   | 1,969,490   | 3,145,068   | 1,609,133   | 1,535,935   | 651,438    | 333,991    | 317,447    | 57,350          | 29,296    | 28,054    | 179,892                    | 91,838    | 88,054    |
| 1-4 years   | 15,335,593  | 7,841,024   | 7,494,569   | 11,950,518  | 6,124,281   | 5,826,237   | 2,484,818  | 1,263,494  | 1,221,324  | 214,450         | 109,200   | 105,250   | 685,807                    | 344,049   | 341,758   |
| 5-9 years   | 20,184,052  | 10,336,616  | 9,847,436   | 15,672,696  | 8,043,297   | 7,629,399   | 3,376,928  | 1,715,921  | 1,661,007  | 283,566         | 143,588   | 139,978   | 850,862                    | 433,810   | 417,052   |
| 10-14 years | 20,881,442  | 10,696,244  | 10,185,198  | 16,279,358  | 8,354,582   | 7,924,776   | 3,440,783  | 1,746,075  | 1,694,708  | 304,032         | 154,209   | 149,823   | 857,269                    | 441,378   | 415,891   |
| 15-19 years | 20,267,154  | 10,423,173  | 9,843,981   | 15,951,898  | 8,227,850   | 7,724,048   | 3,139,156  | 1,594,670  | 1,544,486  | 289,027         | 147,933   | 141,094   | 887,073                    | 452,720   | 434,353   |
| 15-17 years | 12,117,326  | 6,224,836   | 5,892,490   | 9,537,142   | 4,911,692   | 4,625,450   | 1,892,936  | 962,695    | 930,241    | 174,739         | 88,981    | 85,758    | 512,509                    | 261,468   | 251,041   |
| 18-19 years | 8,149,828   | 4,198,337   | 3,951,491   | 6,414,756   | 3,316,158   | 3,098,598   | 1,246,220  | 631,975    | 614,245    | 114,288         | 58,952    | 55,336    | 374,564                    | 191,252   | 183,312   |
| 20-24 years | 19,681,213  | 10,061,983  | 9,619,230   | 15,521,549  | 8,007,393   | 7,514,156   | 2,933,423  | 1,438,129  | 1,495,294  | 254,247         | 131,897   | 122,350   | 971,994                    | 484,564   | 487,430   |
| 25-29 years | 18,926,104  | 9,592,895   | 9,333,209   | 14,935,220  | 7,666,153   | 7,269,067   | 2,646,872  | 1,262,075  | 1,384,797  | 226,227         | 116,961   | 109,266   | 1,117,785                  | 547,706   | 570,079   |
| 30-34 years | 20,681,202  | 10,420,677  | 10,260,525  | 16,553,199  | 8,437,327   | 8,115,872   | 2,773,000  | 1,312,228  | 1,460,772  | 225,433         | 114,708   | 110,725   | 1,129,570                  | 556,414   | 573,156   |
| 35-39 years | 22,243,146  | 11,104,822  | 11,138,324  | 18,013,342  | 9,091,759   | 8,921,583   | 2,931,674  | 1,379,113  | 1,552,561  | 238,212         | 118,958   | 119,254   | 1,059,918                  | 514,992   | 544,926   |
| 40-44 years | 22,775,521  | 11,298,089  | 11,477,432  | 18,693,104  | 9,369,388   | 9,323,716   | 2,871,426  | 1,347,741  | 1,523,685  | 231,189         | 112,908   | 118,281   | 979,802                    | 468,052   | 511,750   |
| 45-49 years | 20,768,983  | 10,224,864  | 10,544,119  | 17,233,171  | 8,577,202   | 8,655,969   | 2,463,325  | 1,143,642  | 1,319,683  | 198,121         | 96,167    | 101,954   | 874,366                    | 407,853   | 466,513   |
| 50-54 years | 18,419,209  | 9,011,221   | 9,407,988   | 15,500,041  | 7,662,704   | 7,837,337   | 2,008,644  | 923,827    | 1,084,817  | 162,106         | 78,924    | 83,182    | 748,418                    | 345,766   | 402,652   |
| 55-59 years | 14,190,116  | 6,865,439   | 7,324,677   | 12,140,638  | 5,928,397   | 6,212,241   | 1,418,669  | 639,265    | 779,404    | 114,255         | 55,283    | 58,972    | 516,554                    | 242,494   | 274,060   |
| 60-64 years | 11,118,462  | 5,288,527   | 5,829,935   | 9,518,392   | 4,568,329   | 4,950,063   | 1,116,657  | 491,671    | 624,986    | 83,012          | 40,029    | 42,983    | 400,401                    | 188,498   | 211,903   |
| 65-69 years | 9,532,702   | 4,409,658   | 5,123,044   | 8,229,353   | 3,847,282   | 4,382,071   | 926,216    | 393,537    | 532,679    | 61,319          | 28,376    | 32,943    | 315,814                    | 140,463   | 175,351   |
| 70-74 years | 8,780,521   | 3,887,793   | 4,892,728   | 7,740,099   | 3,463,574   | 4,276,525   | 743,103    | 297,077    | 446,026    | 45,133          | 20,298    | 24,835    | 252,186                    | 106,844   | 145,342   |
| 75-79 years | 7,424,947   | 3,057,402   | 4,367,545   | 6,635,075   | 2,751,269   | 3,883,806   | 575,777    | 215,224    | 360,553    | 31,819          | 13,327    | 18,492    | 182,276                    | 77,582    | 104,694   |
| 80-84 years | 5,149,013   | 1,929,315   | 3,219,698   | 4,653,605   | 1,753,044   | 2,900,561   | 369,204    | 124,597    | 244,607    | 19,055          | 7,258     | 11,797    | 107,149                    | 44,416    | 62,733    |
| 85 years +  | 4,403,759   | 1,299,108   | 3,104,651   | 3,985,370   | 1,176,107   | 2,809,263   | 325,666    | 88,133     | 237,533    | 15,758          | 5,042     | 10,716    | 76,965                     | 29,826    | 47,139    |

SOURCE: National Center for Health Statistics. Estimates of the July 1, 2001, United States population by age, sex, race, and Hispanic origin. Washington, DC: U.S. Census Bureau. 2002.

**Table 4-4. Estimated total population and female population aged 15-44 years:  
United States, each division, State, and territory: July 1, 2001**

[Figures include Armed Forces stationed in each area and exclude those stationed outside the United States]

| Division and States  | Total       | Female<br>15-44 years |
|----------------------|-------------|-----------------------|
| United States        | 284,796,887 | 61,672,701            |
| New England          | ---         | ---                   |
| Maine                | ---         | ---                   |
| New Hampshire        | ---         | ---                   |
| Vermont              | ---         | ---                   |
| Massachusetts        | ---         | ---                   |
| Rhode Island         | ---         | ---                   |
| Connecticut          | ---         | ---                   |
| Middle Atlantic      | ---         | ---                   |
| New York             | ---         | ---                   |
| New Jersey           | ---         | ---                   |
| Pennsylvania         | ---         | ---                   |
| East North Central   | ---         | ---                   |
| Ohio                 | ---         | ---                   |
| Indiana              | ---         | ---                   |
| Illinois             | ---         | ---                   |
| Michigan             | ---         | ---                   |
| Wisconsin            | ---         | ---                   |
| West North Central   | ---         | ---                   |
| Minnesota            | ---         | ---                   |
| Iowa                 | ---         | ---                   |
| Missouri             | ---         | ---                   |
| North Dakota         | ---         | ---                   |
| South Dakota         | ---         | ---                   |
| Nebraska             | ---         | ---                   |
| Kansas               | ---         | ---                   |
| South Atlantic       | ---         | ---                   |
| Delaware             | ---         | ---                   |
| Maryland             | ---         | ---                   |
| District of Columbia | ---         | ---                   |
| Virginia             | ---         | ---                   |
| West Virginia        | ---         | ---                   |
| North Carolina       | ---         | ---                   |
| South Carolina       | ---         | ---                   |
| Georgia              | ---         | ---                   |
| Florida              | ---         | ---                   |
| East South Central   | ---         | ---                   |
| Kentucky             | ---         | ---                   |
| Tennessee            | ---         | ---                   |
| Alabama              | ---         | ---                   |
| Mississippi          | ---         | ---                   |
| West South Central   | ---         | ---                   |
| Arkansas             | ---         | ---                   |
| Louisiana            | ---         | ---                   |
| Oklahoma             | ---         | ---                   |
| Texas                | ---         | ---                   |
| Mountain             | ---         | ---                   |
| Montana              | ---         | ---                   |
| Idaho                | ---         | ---                   |
| Wyoming              | ---         | ---                   |
| Colorado             | ---         | ---                   |
| New Mexico           | ---         | ---                   |
| Arizona              | ---         | ---                   |
| Utah                 | ---         | ---                   |
| Nevada               | ---         | ---                   |
| Pacific              | ---         | ---                   |
| Washington           | ---         | ---                   |
| Oregon               | ---         | ---                   |
| California           | ---         | ---                   |
| Alaska               | ---         | ---                   |
| Hawaii               | ---         | ---                   |
| Puerto Rico          | ---         | ---                   |
| Virgin Islands       | ---         | ---                   |
| Guam                 | ---         | ---                   |
| American Samoa       | ---         | ---                   |
| Northern Marianas    | ---         | ---                   |

--- Data not available.

SOURCE: National Center for Health Statistics. Estimates of the July 1, 2001, United States population by age, sex, race, and Hispanic origin. Washington, DC: U.S. Census Bureau. 2002.